

acccattctg tcatcatgct aagactcagg aagcccaaca gatttagctt tctctaagta 180  
 ttctgaacaa aattcaatgg cttcttctgc aatgtacctc tcaacaatag atgcatctgg 240  
 acgatataga ttctttgtat acccttttaa gatcttcatg tatcgctcaa cggggtacat 300  
 ccaccgtaga taaacaggac cacaacattt gatttctttg accagatgca caatcaagtg 360  
 aatcatgatg tcaaagaaag cggggggaga atacatcttc aactggcaca gta 413

<210> 9429  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<400> 9429  
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 ggttatcatc tccctttttg tcattgaggg aactacttgg gctgccaggt ctctccacct 120  
 ttggacgtat tctttgaaag attcatgccc ctttttgcac atgttctgta gttgcatcct 180  
 atccgaagcc atatcagaat tgtattgaca ctgcctaacg aaggcaacca ttagggtcctt 240  
 ccaagaatgg actcgggaag gttccaagtt agtgtaccag gtaacagcta cccagtatg 300  
 actttcttgg aagaatgta ttagcagttc ctcataatct gtgtatgccc ccattctccg 360  
 acaatacatc ttagatggg tcttcgggca agtagtcccc ttgta 405

<210> 9430  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<400> 9430  
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 gtaataagaa agtttttagtg gttgatgtaa cgtaagaaa tcgaatcttt taagtcatca 120  
 cgtttttttt ttctctatat gcaatgtttt aaaaatagga ccaaatcgat attactacta 180  
 gtccaatact gtgtttctcc atgtaatagt tgcaacattt tttatataaa aataactact 240  
 gccacatata taattatgta tttaacttat ttgtattaaa tataacttaa agagttaa 300  
 gataatgtat tgataatatt tttatattat cgtttaataca taattttttg ttaatatgac 360  
 ttttaaagta attattataa aagttataaa tacaatttta ttatacataa tggattatga 420

tcg

423

<210> 9431  
<211> 395  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9431

agcttagatg gagaagaaga cacagagtgc cagcttctta gggctcacca tattttttaa 60  
aatataactt caacatcggt ttttaaaaaa acccgatggt aacaaaatga tgtaagggtt 120  
aacatcggtt ttctggagaa aaccgatggt atcataacaa acgttaacat cggttttcta 180  
aaaacccgat gtaataaac atatgttaac atcggttatt taaaaaccga tgttactaat 240  
aaatgttaac atcggttctc caataaccga tgtaaatgaa ctctgttaac atcggttttt 300  
cacaaaaccg atgttaacgt atacacagta tntacaatta tgccaccgcg catatgttaa 360  
catcngnttt tttacaacc gatgttaaca caccg 395

<210> 9432  
<211> 423  
<212> DNA  
<213> Glycine max

<400> 9432

agcttggaaca atggaaagga aatcttgcta aaatcttaga tgaatctcct gtaaatacct 60  
ctactagaga tcaaatgccc taagactata cttcatgga caataaaatg acatttttca 120  
aagctaagaa caagggttagt ctcaatgcat tggtaagaa ctctagagag gcatgcacat 180  
ttggaagggtg ccaagagcgt tgcataggcc aaaaggcatc ccgggtgtagg caaatgtgtc 240  
gaatggacag gtgaatatgg tctagtgtg gtccttcgat gcaatataaa tttgcatgta 300  
acctgaaaaa ccatcaagaa agcaataatg tgatttacct gccaaccttt ccagaacctta 360  
gccaatgaat gagagaggga agtgattctt gcaagttgcc tagttaaatc tcctataatc 420  
aat 423

<210> 9433  
<211> 352  
<212> DNA

<213> Glycine max

<400> 9433

agcttatcat taaaataaat ctaaatggtt gatgatgcca tgatctatat ctttcaattt 60  
ttgtatgatt acttgtatga tatgtttaaa agtattttgat tgattgctca tgtttttcaa 120  
aattattata ttttgtttct aaagccttgt atttggctat atgtttatga aatttgaaca 180  
cttagtatga cttgaatatt tatggattgt gatatatgac tatgtgggtt gcattttaat 240  
ctggttttat tcaagatatt atatttgcaa aaactttaat attaagcata aattcaaaaa 300  
gaaaaggggt gaaagggatg agtgaacagt acaacaaaaa ttgtatgcat tc 352

<210> 9434

<211> 417

<212> DNA

<213> Glycine max

<400> 9434

tgttaaaaag ggaagaaagt caaaaactct tttcaaatta aaaatgttgt ttctacttca 60  
aaacccttg aactacttca catggattta tttggtcctt ctagaactat gagtttgggt 120  
ggtaattact atagcttact tatagtagat gattactcaa tgttcacatg gactttgttt 180  
ttgaaaacaa aaaacgaagc ttttgatgct tttcgcaaat tgccaagatg attcaaaatg 240  
aaaaaggctt caacattgtt tcacttagaa gtgatcatgg aggcaatttc aaaatgagtc 300  
ttttgaaagc ttttgtcaag aaaatggaat tcaccataat tttctgcccc aagaacacct 360  
caacataatg gtggtgtgga gaggaaaaat agatcccttg aagaagctgc gagaacc 417

<210> 9435

<211> 355

<212> DNA

<213> Glycine max

<400> 9435

agcttagcta cacatacctc tctaatagct aagctcacct ccttgagatg agaagctaga 60  
gcttagctac aactcctta taatagctaa gctcaccctt atgacaaaaa atatgaaaat 120  
acaaaaaaaa agtccttact acaaagacta ctcaaaatgc cccgaaatac aaggctaaaa 180  
ccctatacta ctagaatggc caaaatacaa ggcctacgaa ggaaatacct attctaatat 240

ttgcaaagat aagcgggctc atacttagcc catgggctcg aaatctaccg taaggctcat 300  
 gagaacccta gggccttccc ttggatctct agcccaatct acttggagtt ttcta 355

<210> 9436  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<400> 9436

agcttaagct ccttcaattg cacaaggctc ttaatatattg aagagtatcc ttgtggaacc 60  
 ttccccgat gaagacactg acaaaaactt atcttctcct ttttggacaa agtatggcag 120  
 gctgggggca agtaaaatctt cttcccatca gaccttggat gcaactgtga tcgtatgccc 180  
 atatcagcta gatcttgacg ggtattcaag ccacccctcg tcttgccctg aatgttaagg 240  
 agcgtcccaa tcacactgtc acaaacattt ttctcccat gaataaagag tttagtcccc 300  
 attgagcatt tcaagaagag catggaggga gtgtgtcaga attcggtgaa gcagaagccc 360  
 tttcttgac aataaagggt gaattaccca gggtagtggt cttgactatg gcaat 415

<210> 9437  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<400> 9437

tgctaacccta tggaagctcc taatatctcc cacacttttt ggggtggacc attcttggat 60  
 tgctttgatt ttctcagggt ccaacttgac cccatttcta ccaactacaa accctaagaa 120  
 aactatatta tctacacaaa aggtacactt ctctatatctt gcaaagaggg tgtttttcct 180  
 aaggactgaa agaacttgcc tgagatgtcc taagtgatca tctaggctcc tactgtacac 240  
 taaaatatca tcaaaataaa caactacaaa tctacctatg aaatccctta aggcattgatt 300  
 cataagcctc aaaaagggtc ttggtgcatt agtaagccca aaaggcatca ctaggcattc 360  
 atacaaacca aactttgtct ttgaaagcgg ttccactca tcaccctttt tc 412

<210> 9438  
 <211> 437  
 <212> DNA  
 <213> Glycine max



<223> unsure at all n locations  
<400> 9438

ajcttagcct gcaaaaaata atgaatatag agttaacatg ttgggtccac aaaccaaag 60  
ctagcctaaa cccaatgctt aggcattcac tttaagacta cacagtgtaa catgatagac 120  
acaaaacaga aaagatattt atggaactat aagggcataa aagagttacc ttattgcaag 180  
ttgaagaaaa aacaagaaca actttatcaa tgtattccaa agattttgag aagttgcccg 240  
aatcatagaa ggactgagtt gtttccaaag cactttgagc ctgcagtagt tgagagagct 300  
tattttctgt agctgaatct ccagggttta actccagaga anatgtacaa gcgcacaatt 360  
aactcaagca attcaaaact ttatcataat cactagtnc aatatacaga tagtattcaa 420  
ttgagaaaat agagaat 487

<210> 9439  
<211> 426  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9439

agctatgaaa ttgtggatga gcccaaccatg aaattgggac aatgtatctt gtcctgtttt 60  
caccaacata cactgcaaag tgcccttttg gcacatcttc tggaagacca cctcttctat 120  
tgtagccctg ttgtgcttc ttccaaaagc ttgaacacct tctcacaatt tgctttatca 180  
catctgcttg gggtagctta ttggattttt tgatggccat tgtgaaattg attgttagta 240  
ctctttgcac accttcaagt tgttaacttt gaaagggctc cttgaggggtg ctgaaagtgt 300  
gtgattcatg gggcgagtgt ggagaggctn tatttatcat tgggacattg gtatgtgtgg 360  
aaaatagaca atgagtttta gagaaaacag ggtcacgtgg atgtggtgac atgtagcaga 420  
ccacac 486

<210> 9440  
<211> 401  
<212> DNA  
<213> Glycine max

<400> 9440

tccttaagaa gattcctaaa gatgcttgag cttagctaca catacctctc taatagctaa 60

gctcacctcc ttgagatgag aagctagagc ttagctacac accccctata atagctaagc 120  
 tcacccctat gacaaaaaac atgaaaatac aaaaaaaaaa aagtccttac tacaaagact 180  
 actcaaaatg ccccgaaata caaggctaaa accctatact actagaatgg ccaaaatata 240  
 agggccagac gaaggaaata actattctaa tatttacaaa gataagcggg ctcatactta 300  
 gtccatgggc tcgaaatcta ccctaaggct catgagaacc ctagggcctt cccttggate 360  
 tctagcccaa tctacttggg gttttctacc caatgccctt g 401

<210> 9441  
 <211> 431  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 9441

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 tgagggcggt taaagctntg taatcaacgt agaagcgcca ggatccatct tgtttcttca 120  
 ccaacaatac cagcaaagaa aatggactgg tacttggtcg aatcaggacc ttttgagaca 180  
 tggagtcgat ctgcaattca atctcgcgct tttggaagtg agggtaacct tacggcttca 240  
 tgttaactgg agtggattga ggaagcacgt gaatgtggtg gttggtgtcc ctagccggtg 300  
 gcatcgcatg gtggggtcga aataaggcac caaatatggt gagcaatggt cggagtacga 360  
 agggcaagtc ctccatgcgt gaaggagga tatectctat gagtactgtg atgtggaagt 420  
 aaagtccagg t 431

<210> 9442  
 <211> 400  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 9442

agcttaaata caactccga acttagaatt ttcattntga ccagtttctt tcggtttttc 60  
 cgatgttttc cacaataaaa cgttggtggc gactccgcgc atctttcttc ctttggaag 120  
 cgcaccggtt agcttcgcct tcgctgcgcc ttaaaagggc acgttgcgac acctatcaac 180  
 aacaacaaat atggaatcct taccattact tgttctaggc agccctaaaa caaagtccat 240

tgataaatta atccatggag aatccgaaat tggtaaaggg gtatacaaac cataaggcat 300  
 tacctttgac ttggcctttn tgcaaacaaat acaacgctca canaatttct gcacatcctt 360  
 cttcatgtta ggccaataaa aatgctcttt caatgtatct 400

<210> 9443  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<400> 9443

cgtaaagctt ttggtgggaa atgatagtga gactcaactc ggataccaac cttgcgctac 60  
 aataattgca gcaagaccca ctatccacaa tgggagaaca atttttgttt aaaaccttgc 120  
 atcttatatg aaaaatgttc tctctttcgg tttaggctag gtcacaagat tgactcccaa 180  
 ggagccttct caccattaga agatcacctt cttcataggg gtaaaccttt tcaatatgct 240  
 catcacctt ggcttcaccc ccaattccac ttgaaaaagg agaagaagta gcctcctctt 300  
 ggctactata gatgtcttga tccctcatga tcatggtttt ctttgtgggg catcgagaag 360  
 caatgtggcc tatcccaata catttgaagc atttgatgtt actagttcta tc 412

<210> 9444  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<400> 9444

tataattgaa caacgaaagc tctcaagaga tgcaaatggc cataacttat cacacggaag 60  
 tccgattcag ggcgataata taccgagacg ctcgaaattg cacaacggaa gccctcaaga 120  
 aattcaaatg gtcataactt atcacacgga agtccgatta aggtgcatag tatatcgaga 180  
 agctcataat tgaacaacga aagctctcaa gaaattcaaa ttgtcataac ttatcacagc 240  
 gaagtccgat tcaggcgcat aatatatcga gacgctcgaa attgaacaac gaaagctctc 300  
 gagaaattca agtggtcata actcttcaca cggaagtcg attcatgtgc aaaatatatc 360  
 gagacgcttg aaattgaaca acagatgc 388

<210> 9445  
 <211> 247  
 <212> DNA

<213> Glycine max

<400> 9445

agcttgaaat tgaacaacgg aagctctcga gaaattccaa tggtcataac ttatcacacg 60  
gatgtccgat ttacgctcat tttttatcca gatgtcccaa atcgaacatc gaaagctctc 120  
gataaaactca aatgggtcatg ggttattaca ccgacgtact attttggcgc ataatatgtg 180  
ggggcgctga aattgagcaa cgcaagctgt ggagaaatc ataaggtaat aacttgggcc 240  
actgatg 247

<210> 9446

<211> 444

<212> DNA

<213> Glycine max

<400> 9446

cgctatcagg accttgaaac tcagcttaac aaaggcatgc gaaatgggtg gaattcctag 60  
agcaattccc ttatgttacc aaacataaaa agggaaaagg taatattgta gccgatgctc 120  
tttctcggcg tcatgcatta ctttctatgc ttgaaacaaa attgattggt cttgaatgtt 180  
tgaaaagcat gtatgaaaa gatgaaactt ttggagaaat ttttaaaaat tgtgaaaaat 240  
tttcagaaaa tggtttcttt agacatgaag gctttctttt caaagaaaac aaattgtgtg 300  
tgctaaatg ttctactaga aattttcttg tttgtgaagc acatgaagga ggtttaatgg 360  
ggcatttttg ggtccaaaag actctagaaa cattacaaga acatttttat tggcctcata 420  
tgaaaaagga tgtgcagaaa tttt 444

<210> 9447

<211> 433

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9447

agcttgtcaa attagtgtat ggattgaaac aagctcaaga gtttggatat aaagaccaag 60  
ttcattttta gttcaaaatt tattctccaa aggaatagcg gatattacac cattcataaa 120  
gacttagaaa atggatctgt tgatagtata gatctatgta gatgacagca tctttggtat 180  
ttcctcaaaa aggatgtgca aacaattttt tgagctaataa aaaggaaaat ttaaaataag 240

catgatggga gaactaaagt tctttctaag ggctttaaat cattcaaaag aggtttagaa 300  
 tggatgaaac cagaccagtg gctaccctca tgcattccatc cactgttagt gataaagcag 360  
 aanagaaaaag caccaatagt gcataccaat ttcattgggaa atcactagtg tcataatctt 420  
 caagaaacaa cac 433

<210> 9448  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<400> 9448

ttgagcaaat tcaaacgaca ataaatTTTT actctgatgt ccgattgagt ctcgtaatat 60  
 atcgagaagc tcgaaatgga ataccaaagc tctgagcaaa ttcaaagcag aataactttt 120  
 tactcggatg tcttattgag tcccataatt tatcggaacg ctcgaaatag aataccgaag 180  
 ctttgagcaa attcaaagca caataacctt tttactcgga agtcggattg agtcccgtaa 240  
 tatatccaga cgctcgaaat tgaatgttga agctctgagc aaattcaaac gacaataacc 300  
 tttttactga tatgtcggat agagtcccgat aatatattga gacgctcgat atggaatacc 360  
 gaatctgtga gcaaattcaa acgacaataa ctttttactc ggatg 405

<210> 9449  
 <211> 355  
 <212> DNA  
 <213> Glycine max

<400> 9449

agcttcaaca ttcaatatcg agcatttcga tatattacgg gactgaatca gacatccgag 60  
 taaaaagtta ctgtagtttg aagttgctca gagcttcaac attcaatatc gagcgtctcg 120  
 atatattacg ggactgaatc agacatccga gtaaaaagtt aatgtcgttt gaattatctc 180  
 agagcttctg tattccattt cgagcgtctc gatattattac gggactcagt cagacatccg 240  
 agaaaaaagt tactgtcgtt tgaatttgcg cagagcttcg ataataaatt tcgagcgtct 300  
 agatatatta cgggactcac tcagacatcc gagtaagaag ttattggcgt ttgaa 355

<210> 9450  
 <211> 304

<212> DNA  
 <213> Glycine max

<400> 9450

tttaaatggt ttcaatgttt tagaaagcat gtaatcggtt acacatggct tgtaatcgat 60  
 taccagtggg ttggaaaatt ttaaaacaac cataagaaat ttgaatttaa atttcaaagt 120  
 tgtgtaatcg attacagtaa gttggtaatc gattaccagt gtttaaaaat tcaaatttca 180  
 aatgtgaaga gtcataactc ttcagaagta attgtgtaat caattacacc attatggtaa 240  
 tggactacca gtgagtagtt ttgaaaaata ttccaacaa tcacaacttt tcatttgaat 300  
 ttgt 304

<210> 9451  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9451

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 tcttctattt tcagattggg aatgcctcta acagcacctt tgtcaatgat tttcttcatg 120  
 cctcttaagt gcagatgtcc aaatctttga tgccatattt tgacttcac tcttttggag 180  
 gatagacatg tggaggagta actggtttct tgagggtgcc ataggtaaca gttgtccttt 240  
 gatctgctgc ccttcattag aacttcactc ttctcatttg tcaccaagca tcttgacttt 300  
 gtgaagttta cattgaatcc ttcacacac aactgactga tgctgatcaa gtttgagtc 360  
 agtcccttca ccagcagtag ttgtttcaga ctaggaagtn catcatggac tagctttccc 420  
 attccag 427

<210> 9452  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<400> 9452

tggtggttta acacaatata tacagagatt cagattatta cttacagttt taaaagtcga 60  
 gaattaaaat caaagatact tgcttttaag gagctaaaat aagaatacca ttaaccctta 120

tcttgaaata cttagttcac ttctctagct actttctttg acattcatgt atatatgcac 180  
 tataaagatt aaataatgga gtactaagga cttatctagt tatctaccac aataaatata 240  
 tctctcaact tcaacccaat atatagtatt ataaacggct aaatattccc aaaacagaat 300  
 atataaaaag atttattttg atgattatca atataaaaat cgttctatta atcaattgaa 360  
 aatcatcata actctactgc tatatatggt aatattctaa taaataat 408

<210> 9453  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<400> 9453

tgatgtttgt gttgaatgca ttaaaggtaa acagacccaa agtaagaaat tatgtgcata 60  
 tagagctaca gacgtcttgg aattgataca tacagacatt tgtgggtcat ttcatatacc 120  
 ttcatggaat ggtaacaat attttatatc attcatagat gattactcca gatatgcaca 180  
 cctgtatctt atacatgaaa agtcacaatc cctggatgtg ttcaaaacat ttaaagttgt 240  
 agttgaaaat caactcaaca aaagaatcaa gagagtcaga tctgaccgtg gtggtgaata 300  
 ctatggcaga tatgacggtt caagtgaaca acgtcctggg ccttttgcca ggtacctaga 360  
 ggaatgtgga atcgtcccac agtacacgat gtcgaggtca cctagcatga atg 413

<210> 9454  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<400> 9454

gatttctcca gatttacctg ggtaacttt atcagagaga aatctgacac ctttgaagta 60  
 ttcaaaagat tgagtctaa agttcaaaga gaaaaagact gtgtcatcaa gagaattagg 120  
 agtgaccatg gttgaaagat tggaaacggc aaggttactg aattctgcac atctggaggc 180  
 atcactcatg agttctctgc agccatcaca ccacaacaaa atggcatagt tgaaggaaa 240  
 aacaggactt tgcaagaagc tgccagggtc atgcttcatg cccaagaact tcctataat 300  
 ctctgggctg aagccatgaa cacagcatgc tatattcaca acagagtcac acttagaaaa 360  
 gggactccaa ccacactgta tgaaatct 388

<210> 9455  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9455

tgatgatttc ctatagggcat atanaacagc cttcaaaact cccattggca tctctttggt 60  
 tcaaatggtg tacgaaaaag tgtgctacct accaatggag ttagaatta aagctcatta 120  
 ggccatgatg ttcctcaact ttatctttat agcatccaga gagaaaagga aggtataact 180  
 acaagaactt aaaaaaatat gccacaacgc atatgattta tccaagctct acaacaaaag 240  
 aaccaatagg aaccatgaca aaaagatcct ctacagagaa tttaggcca aacttcaagt 300  
 attgctctac aactcaagt taaagttggt tcttggaaaa ttaaaatcaa gatggagtgg 360  
 gctttttact atcaaagaca ttaagcctta tg 392

<210> 9456  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<400> 9456

agctttgacg tttgtgttga atgcattaaa gataaacata ccaaaagcaa gaaattaggt 60  
 gcatatagag ttacagacat cttggaattg atacatacag acatttgtgg gccatttcct 120  
 acaccttcat ggaatggtca acaatatttt atataattca tagacgatta ctctagatat 180  
 gcatacttgt ttcttatata tgaaaagtca caatcattgg atgtgttcaa aacatttaaa 240  
 gttgaagttg aaaatcaact caacaaaaga ataaagtgtg tcagatctga ccgtggtggt 300  
 gaatactatg gcagatatga cgggttcagg gaacaacgtc tagggccttt tgccagggtac 360  
 ctaggaggaat atggcattgt cccacagtac accatgccg 399

<210> 9457  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<400> 9457

tgaatgcatg taaccaccca tcttctcata gtagaacact agtaacgtgt cttctatcat 60



tattatcacc tccctatcca tcattggggg cgctacttaa gtttccagat tctccacct 120  
 ttgggtgtat tctttgaaag attcaccctc cttcttatac atgttttgta gctgcatttt 180  
 attcggagcc ataccagatt tgtactgata ctgcctaata aaggcaacca ttacgtccct 240  
 ccaagaatgg attcgggaag gttccagatt agtataccag gtgacggctg ccccagtaag 300  
 actttcttgg aagaaatgca tcaataattt ttcatttttc gagtataccc ccattttcct 360  
 gttgtacatc ttcaagtgat tcttgtggca agtagtcccc ttgtatttat cagaatccag 420  
 caccttgaac t 481

<210> 9458  
 <211> 487  
 <212> DNA  
 <213> Glycine max

<400> 9458  
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 taaaaaggga aaaggtaata ttgtagccga tgccttttct cggcgctcatg cattactttc 120  
 tatgcttgaa acaaaattga ttggtcttga atgtttgaaa agcatgtatg aaaatgatga 180  
 aacttttggg gaaattttta aaaattgtga aaaattttca gaaaatgggt tcttttagaca 240  
 tgaaggcttt cttttcaaag aaaacaaatt gtgtgtgcct aaatgttcta ctgaaattt 300  
 tcttgtttgt gaagcacatg aaggagggtt aatggggcat tttggggctc aaaagactct 360  
 agaaacatta caagaacatt tttattggcc tcatatgaaa aaggatgtgc agaaattttg 420  
 tgaacattgc attgtatgta aaaaggcaaa gtctaaggta aagcctcatg gattgtatac 480  
 tccattg 487

<210> 9459  
 <211> 469  
 <212> DNA  
 <213> Glycine max

<400> 9459  
 agcttgtcaa attagtgtat ggattgaaac aagctcaaga gtttggtatg aaagaccaag 60  
 ttcattttta gttcaaaatt tattctccaa aggaatagcg gatattacac cattcataaa 120  
 gacttagaaa atggatctgt tgatagtata gatctatgta gatgacagca tctttggtat 180

ttcctcaaaa aggatgtgca aacaattttt tgagctaatg aaaggaaaat ttaaaataag 240  
catgatggga gaactaaagt tctttctaag ggctttaaat cattcaaaag aggttttagaa 300  
tggaatgaaac cagaccagtg gctaccctca tgcacccatc cactgttagt gataaagcag 360  
aaaagaaaag caccaatagt gcataccaat ttcattgggaa atcactagtg tcatagtctt 420  
caaagaaaca acacaattgc catcaaacac cacttcatta gagatcata 469

<210> 9460  
<211> 368  
<212> DNA  
<213> Glycine max

<400> 9460

agcttaaaata caactcccgga acttataatt ttcattttga ccagtttctt tggggttttc 60  
cyatgttttc cacaaataaa cgttgggtggc gactccgcgc atctttcttc ctttggaaag 120  
cgcacccggt agcttcgcct tcgctcgccc ttaaaagggc acgttgcgac acctatcaac 180  
aacaacaaat atggaatcct taccattact tgttctaggc ggccctaaaa caaagtccat 240  
tgataaatta atccatggag aatccgaaat tggtaaaggg gtatacaaac cataaggcat 300  
tacctttgac ttggcctttt tgcaaacat acaacgctca caaaatttct gcacatcctt 360  
cttcatgt 368

<210> 9461  
<211> 362  
<212> DNA  
<213> Glycine max

<400> 9461

tatgtctaaa acatctacaa tagacctcct caacctcagc aataaaatca gccacaacaa 60  
aacaattatg acctctccag caacaggtag aatcccggtt gagggaaatca tcccaacctt 120  
agatgggtcga atcttctaca acagcagcag caacaacaac agccttatct tcaaaatgct 180  
gctgggcccaa ccaaaccata ctttctctca ccattccaac accaccacca ccattaccac 240  
cagcctaaaa accaccaacc agtgaagggt cttcacaaac tttccttgaa aaacttgagg 300  
aggcaatgac ttttccaaaa aatgcagttt caccaaaaaa caaaaccctc attttaaac 360  
tt 362

<210> 9462  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<400> 9462

tctaaacttt atacaagaat gaaactctga tgccacttgt tagacaagtg gcttcagata 60  
 tcttaagaag ggggggttga attaagatat tccaaactac tcccccaatt aaaatctatt 120  
 tcaactttctt ttcaagttat aaattccctt aacaatgaac ttcttaaata ttaattcaaa 180  
 taaaacaatt tgaatatgaa tataaagcaa taataaaca aggagattaa gggaagagaa 240  
 aytgcaaaact cagatttata ctgggttcggc cacacccttg tgccctacgtc caatcccca 300  
 gcaaccgcgt tgagagttcc actatcttgt aaattccctt tacaagttct aaacacacaa 360  
 ggacaatcct tcctt 375

<210> 9463  
 <211> 312  
 <212> DNA  
 <213> Glycine max

<400> 9463

tatacagcct acctgcatgc atgctagcta agtcgactgt gccagacagt gcttcttaat 60  
 gcctctaact cttcgaaacc actccgcgtc gttctcacta agcattcgag ctgattctaa 120  
 cttcgctga taatttgggt tgcgatcgca aagcactgac tgtcacaaac ttatatgtat 180  
 ctttcacata ataagtatac cataccctct actatatccc aagcatgcc aagactgcaa 240  
 tcatgatgat aatatgatcc atgccgacta ctattttgcy atagtggaa atctgcatct 300  
 tgtaccattg at 312

<210> 9464  
 <211> 460  
 <212> DNA  
 <213> Glycine max

<400> 9464

agcttctaaa ctttatacaa gaatgaagct ctgataccac ttgttagaca agtggcctca 60  
 gatattctaa gaaggggggt tgaattaaga tattacaac tatttcccca attaaaattc 120

tatttcactt tctattcaag ttacaaatc ccttaacaat gaactcttaa ataatgattc 180  
 aaatagaaca atctaaatat aaatataaac caataataaa taaaagagtt taagggaaga 240  
 gaaagtgc aa actcggattt ataactggtc agccacaccc ttgtgcctac gtccagtc 300  
 caagcaaccc gcttgagagt tccactatct tgtaaaatcc ttttacaagt tctaaacaca 360  
 caaagacaat cctttctttg tgttcagaat tcttttacia caagagaacc ctgcgtctct 420  
 tatcccttaa agaattagaa agaagagaag aatgaatctc 460

<210> 9465  
 <211> 346  
 <212> DNA  
 <213> Glycine max  
 <400> 9465

agcttatccc atgcctcctt agcagatgtt gcataagaaa tcttctcgaa tgcattcattt 60  
 tttaatgctt gatagatgag gaatagagct ttattgtctc tctttcttga atccctttaac 120  
 gtctcctttt gtacttgga tagcgaagtc tcatcttggt actcctttta gcatttttca 180  
 accatttccc aaacatcatg tgcctcaaga agggccttca ttttgatgct ccaaatgaca 240  
 taggtgctcc cctttagaag cggaacttga aaggataccg cttcattgct tgccataact 300  
 atataggaat ttcttatcag aacctaactc ctgataccac tatgtt 346

<210> 9466  
 <211> 486  
 <212> DNA  
 <213> Glycine max  
 <400> 9466

tggtagtgtg tggtttaaag tctaaaataa aagaaaaatt atgtaataat gtttctttga 60  
 agaaaatttt atcagtga aaataaatatt ttgaatatga attttgtagt atttttttaa 120  
 ttagattagg ttggtgttaa tgatttatta gtgtgttaat aattcatgaa cgtttcaact 180  
 ttcatttaaa aaaattagta gatcatattt atttgaagaa agtattttga gtatgaaatt 240  
 tattttaata tgaagtgtga gtattttttt aattagatta gggttcattt tttgtgttaa 300  
 aaattgataa gcgttcaagt tgaaagtgtt atttgatgat gttttgttgt tcttgtgata 360  
 atatttaatt taatataatt gtagtaattt tgtaattacc tattttcatt ttgaaagtat 420

tattgttaaa attaattatt ttactacta acttcggtca tgaattattt tttttgtgg 480

taaaaa 486

<210> 9467

<211> 489

<212> DNA

<213> Glycine max

<400> 9467

tagcaaatgg acttgggtgt tgcccaattt catcgtatct tttgtaatac tcaccacctc 60

tattagatct aataattttc acttttttgt ctaattgtct ttctacttta ttcaagtaaa 120

tttctaaggc atccattgcc cgagatttct catgcagtaa gtaaacataa ccataacgtg 180

aatagtcate aataaagggtg ataaagtatc ttctctttcc gaaagaacta acatcaaaaag 240

gtccacaaat atcagtatgc acaatttcaa gaagctgagt gcttcttgta gctcctttct 300

ttgtatgttt tgttgttttc ccttgatata atccacacaa atatttagat ccgtaaaaac 360

tagatcatga agaatttcat tctttattaa tcattccatc ctttctctag aaatgtgacc 420

taaacgttta tgccacaaga aagcagatcg gtcattcact aaactacgtt tagtgataac 480

attatgatg 489

<210> 9468

<211> 465

<212> DNA

<213> Glycine max

<400> 9468

agcttatcaa accaaagcaa cttctatcta gaacaacttg aagagctata ttagaagaaa 60

tttcaattgt tgaaatgtat agtaagtcgg tcattctagt acagcataac aaagtcacaa 120

atactagtag taagttgaag aacatattgc agtatcgagt gtttgctggt tacatatatt 180

cagggttatat acctggagga gttccacaac acatattgag gtcacataa tgctcaactt 240

caagaccaat gaaccatgca ccaagtgaag catcttcatt agcatattta tgcaaaaatcg 300

gcctgcaatc ataattagac tccacatgaa atttctatat gtaagagaat attctatgag 360

aaacatggag tgatccccga actgagattt cctattagga aaactttaag tttatgaaaa 420

aaaaagtttc tttattttta tcaaatcttg caaaatgagt atttt 465

<210> 9469  
 <211> 484  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9469

tgtaggcact ttgaacgcaa tattctccat tattttccat cctccaaatg actattttgt 60  
 ttttgtacct tgcataatag gcacttgaag aatggtattc acatccctta nattgaatat 120  
 ttgattaatc acatccatgt ttcaacttcc atgtgaagta tccataatat ttgttacttt 180  
 gagatttttc atcccattga ttataagagt ttcaatagtg agattttact tcattctcaa 240  
 ctagggttcg ttccaaatac caatattagt accatttccc aactttcatt tatatccttc 300  
 ctttatgacc attttagaag agaacatact tcaccatgta aatgatgggt tgtgccttac 360  
 taaagcttcc ataaactctc cccctaagaa atatttagct ttgatgactc ttgacagtaa 420  
 aacatttagc atagaaaaga tcttccatta ttgctttcct aacatggcaa agttgaaagc 480  
 aaat 484

<210> 9470  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<400> 9470

agcttttagg gttaaagtct cactgattgtc acgtgctcat gcaacaattg ttagtcgtgg 60  
 ctatatgaga catcttgcca aacaaagtca ggtaacgat aactcgcctg tgctttttct 120  
 tccattctat atgtagcaaa gtcattgac caatcatgtt tcatgagttg gaaaatgagg 180  
 ccgcaattat actgtgccag ttggagatgt attttccccc tgctttcttt gacatcatga 240  
 ttcacttgat tgcgcactcg gtcagagaaa tcaaatgttg tggtcctgtt tatctacggc 300  
 ggatgtaccg gttgaccgat acatgaaaaa cttaaaaggg tatacaaaga atctatatca 360  
 cccaccaaca tctaattgtg aga 383

<210> 9471  
 <211> 493  
 <212> DNA

<213> Glycine max

<400> 9471

tatgtgagag actctataaa ttactctagc tggaacacat gacctcgcaa aatgcctga 60  
cttcccat taaagcaggt gctttgtaca ccgacgccgt ggggtgtgac acgaccaccc 120  
aatcacctt cttacattcc gcattcccta ccccttctac ctacctcccc acacctaaaa 180  
ctacctccac ctgttctgc accgccaatg ttgtccttcc cgggggcgca gaacctcacc 240  
atgtgtccaa atgcgccaca cctaattgat gatccgactc catcagcacc tgaatggct 300  
acaatgccgg cgtctcctgg cacacaatct cttatgaggt ggacgaaccc ctccgatttg 360  
aaacaacctc cgccgatgga gccttaaccg acaccagaaa taccgctcct gttgcaatcc 420  
ctggtaggg gtacaaactt gccaaactgg tagcacgcgg agccgcctcc gacattgggc 480  
ctggcgccga aac 493

<210> 9472

<211> 439

<212> DNA

<213> Glycine max

<400> 9472

agcttcgaaa ttgtggatga gccaacatg aaattgggac aatgaatctt gtctgtttt 60  
caccaacata cactgcaaag tgcccttttg gcacatcttc tggaagacca cctcttcat 120  
tgaagccctg ttgtgtcttt tcccaaagc tcgaacacct tctcacaatt tctttatca 180  
catctgctag ggagagctga ttggattttt agatggccat tgtgaaattg attgacagta 240  
ctctttgcac accttgaagt tgtaacttt gaaaggtct cttgagggcg ctgaaagtgt 300  
gtgattcatg gggcgagttt ggagaggctt tatttatcgt tgggacattg ggtgggtgg 360  
aaaatagaaa cttgagtttt aaaaaaaca cgggtcacgt tgatgtgggg acatgtatca 420  
taccacaccc taatgactc 439

<210> 9473

<211> 436

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9473

tgtgggattt tgtgatagtg attttgccgg agatgttgat gatagaaaaa gtactaccgg 60  
 atttgatatt tttgtgggtg atttgtgttt tacatggaat tctaaaaaaa aaggcattgt 120  
 gacactttct acttgtgaaa ccgantatgt agctgcaact tcttgccatg gtcatgccat 180  
 ttggctaaga agattgttgg aggaacttca gttgttgcaa aaggaaagca caaagatcta 240  
 tgttgataat agatctgcac aagagcttgc caagaatccg gtgttccatg aacgaagtaa 300  
 gcatatagat acaaggtatc atttcattag agagtgcatt accaagaaag aagtagaatt 360  
 gactcatgtg aaaactcaag atcaagttgc ggatatttcc accaagcctc tcaaatttga 420  
 aaattttcga agattg 436

<210> 9474  
 <211> 492  
 <212> DNA  
 <213> Glycine max

<400> 9474

tgaacaattc atactcaaaa tgattgttag tcttggcaag cttggttgct aggcctctacc 60  
 atcaaaaatt gcatgggagc aacttcatgt ttttgcactg catgcatttt tgttgccctt 120  
 tctccaaca ccttcatttt ctacttttcc agctccttat gtctatgccg tttcttctcc 180  
 aatttttggc caactgcaac ttcaatgctt ttctttaaaa acttcttcaa tgtaaattgg 240  
 atcttttaca atttttcttg tccaagaaaa actcaaaaca atgggtgatgt ggaagggaaa 300  
 aataaatcct tacaagagat ggctagaaca ctgattagtg agtatagcat acaaaactat 360  
 ttttgggaag aagttgttag tatagtctgc tacattctga atagagtgtt tatcagaaa 420  
 gttttgagca agactcttta tgaacttggg aaaggaggaa aaccaagtgt atcttacttc 480  
 cacatttttg gt 492

<210> 9475  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<400> 9475

tgtaggccta aaatcttctt catcaatgga ttcctttgct tcttgggaaga taaatggcag 60  
 cggaatggag aaggaagaga gagaggagat gccactttaa ggaaaagatt agtctagaag 120



aagctcacca ccataggagg ccatggataa gagcttggag gaagaaggag atgaatgaag 180  
 ggagaaggag agaagaacac gaaattttgt ctctaaaaga gctctgaaat ctgaagttaa 240  
 tattcaaatg atcaaaagttc aaaaaaatgc accacacatg acctctatct atagcctaag 300  
 tgtcacacaa aattggaggg aaatttgaat ttcaattcaa atttcacttg aatttgaat 360  
 tgaattttgt gagcccaact ttggaacca aatttcactt aattatggat tagggaattt 420  
 tagttatgg 489

<210> 9476  
 <211> 504  
 <212> DNA  
 <213> Glycine max

<400> 9476

agcttcttat ccaaggctca tcttgggtgt gaagctcctt cttccatgac ttattcccta 60  
 gtggatggca cctcctctca cctcttctcc tttgtcttcc gctgcatctc catgggtggaa 120  
 aatcaccatt aaaggacctc attgaagctc aaagatccag cctccataga agccccacaa 180  
 gcaagcttcc atcactgcct ttgaggatcg aggatagacg aacaaagcac ctaagaagga 240  
 aggagggtcc attgggtcaa gtgacctggg gaggtacatc aggagaagat gccacgtggg 300  
 aattagagag tcagatgcaa gccgcctatc catccttggt tgagtcaagt aaatttcggg 360  
 gacgaaattt ctaaaagggt aggagagttg ttacacctg agatattata agttattttc 420  
 gatgtttaat tgtatttatg tgttatttga ctatatgata gacttgaatg agttaagtat 480  
 gccttgacct aatcatgtg tgaa 504

<210> 9477  
 <211> 452  
 <212> DNA  
 <213> Glycine max

<400> 9477

tatcccatgc ttctttggct gtcgttgctg tggatatctt ctcaaagtga tcttcatcca 60  
 cggattgatt aatgagaaaa agagctttct tgactctctt tcttgactcc ttcaacgtct 120  
 cctttacacc ttggcttacc aaggcttcat cttgctctc gaagccattc tctacgatat 180  
 cctacacatc ttgagctcct tgatactcca attatcatag ctgttctttg agagcatcgg 240

catttggaag ggaacacctc cattegccat cttttgagga tcttgaagct ctgataccac 300  
 tttgttgga ataatgcttt ttatgttttag gaaaagtgtt tatgaatatt ggagactttg 360  
 aatagaacct tgatagaaag gagaattctt tatggaggag agaactttgt atttttgctt 420  
 gataccaatg tgtaggatta catctctatt ta 452

<210> 9478  
 <211> 455  
 <212> DNA  
 <213> Glycine max

<400> 9478

ttgagaattt gagaacatga caaaaacaag tgacagtaat atccaagata tacaatggg 60  
 tgttggtcaa tgtaccacat ttaatagtac aaactaaaag aacaagaaaa acagaccaat 120  
 ttctaggcgt ctcagaaaaa actttaaaaca agacagttca cctaataagt ttttgatta 180  
 gtagtaatca tattttgtga aataaatagc ttaccagagt tcattggact ccacgctgg 240  
 aaccgaaaag gagatgggtat gttgagaaca gaagcaccag aaacactgtt atgcctggaa 300  
 atgggaagat attgcctcgg gaaaaacctt ggcacccaat tgccaataca tgataaagca 360  
 caaagaagaa gaattaaaga aagcaacaaa aggggcacaa gaacaagagg atttatcttc 420  
 atctgaaaaa gctccaagtc acgaagccca aatct 455

<210> 9479  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9479

agcttcaaca tcagaccact tccaggggtgc tggaactact tcacatggac ttgatggggc 60  
 ctatgcaagt tgaaagcctt ggaggaaaga ggtatgccta tgttggtgtg gatgatttct 120  
 ccagatttac ctgggtcaac tttatcagag agaaatcaga cacccttgaa gtattcaag 180  
 agttgagtct aagacttcaa agagaaaaag actgtgtcat caagagaatt aggagtgacc 240  
 atggcagaga gtttgaaaac ggcaagttaa ctgaattctg cacatctgaa ggcactctc 300  
 atgagttctc tgcagccatc acaccacaac aaaatggcat agttgaaagg anaaacagga 360

ctttgcaaga agctgccagg gtcattgcttc atgccaaaga actttcctat aatctctggg 400  
ct 402

<210> 9480  
<211> 383  
<212> DNA  
<213> Glycine max

<400> 9480

agcttttaat ggaagtcaag agcacgaaac tgcgcggaca ccgttaactg gtgagcagg 60  
cttcacagcg gttgaacacc ttaatactgt atttggaaag acccaaaaga aggataaaa 120  
taagagtgc atatggaaga aaagggtccat tttctttgat ctccgtact ggtctgatct 180  
agatgttaga cattgtattg atgttatgca tgtagagaaa aatgtatgtg acagtgtcat 240  
tgggacactc cttaacattc agggcaagac gaaagatggc cttaaataccc gtcaagatct 300  
agctgacatg ggcatacgat cgcagttgca tccaaggctc gatggtaaaa aaatatactt 360  
gcctccagct ggtcatactt tat 383

<210> 9481  
<211> 424  
<212> DNA  
<213> Glycine max

<400> 9481

tcaacattca atatcgagcg tttcgattta ttactgggct gaatcagaca accgagtaaa 60  
aagttattgt agtttgaagt tgctcagagc ttcaacttcc aatatacgagc gtttcgatat 120  
attacgagac tgaatcagac atcagactaa aaagttattg tcggttgaat tatgtcagag 180  
cttcgggtatt ccagttcgag cgtctcgata tattacggga ctcaatcaga catctgagta 240  
aaaagttatt gtgcgttgaa tttgctcaaa gtttcaacat tcaataccga gcgtctcgat 300  
atactacggg actcaatcag acatccgagt aaaaagttat tgacgtttga atttgctcag 360  
agctttggaa ttcaagttcg agcgtctcaa tatattacgg gactcaatca gacatccgag 400  
taaa 404

<210> 9482  
<211> 337  
<212> DNA

<213> Glycine max

<400> 9482

agctttgagc aacttcaaac aacaattact ttttactcgg atgtctgatt gagaccgta 60  
atatctccag acgctcgaaa ttgaataccg aagctctgag caaattcaaa cgacgataag 120  
tttttactcg tttgttcgat tgagtcccg taaatatcga aacgctcgaa attgagaacc 180  
gaatctctga gcaaattcaa acgacaataa ctttttactc ggatgtttcg attgagtccc 240  
gatatatccg aacgctcgaa attgaatggt gtacctttga gcaaattcaa acgacaataa 300  
ctttttactc gggtgtctga ctgacacgcg taatatt 337

<210> 9483

<211> 493

<212> DNA

<213> Glycine max

<400> 9483

tctcaagtg tcacattctc tagcctcttt gttgagcacc tgttgagcag ataggctggt 60  
gttgacacta cttcacccca aaactccttt ggcaagtcaa aattccttag catacacctg 120  
gtcatgttga ctatggttct attgagtctc tcagatacac cattgtgttg tgggtgtatat 180  
gaaggtgtga tctcatgaat gataccctca tcttcacaaa atttctcgaa ttcattgtgat 240  
gcgtattcac caccaccacc tgatctgagt ctctgaatcc tgtttccact ttgtgttttt 300  
accatcacct tgaatctttt gaaggtgaaa aacacttcac tcttcttct tagcaagtag 360  
atccacactt ttcttgagta atcatctata aaggacacaa aatatgaact accccctaga 420  
gaaactttct caaaagggcc acacacatca gtatagacca aattcaaaac tgctgaaaac 480  
ttagttggta ctt 493

<210> 9484

<211> 485

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9484

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ctgttcccca aatccctgaa aaatgtaaag atccaggtac attcatcatc ccttgtatta 120

tagggaacag taagtttcac aatgccatgc tagatttagg agcttctatt agtggttatgc 180  
 ctctttctat ttttaattct ctatctcttg gtcctttgca gtcaactgat gtggtaattc 240  
 atttagctaa tagaagtgtt gcatactctg ctagtctcat agaggatgtc ttagtttagag 300  
 ttggtgaact gattttccct attgattttt tatattttga atatggagga gggattttct 360  
 aagggatcag ttcccattat tttatgcaga ccttttatga aaactgcttg aacttngata 420  
 gatatatata tgcacgcaca ctatctatgg aggttgatga tataactggt cttttaatat 480  
 tcttg 485

<210> 9485  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<400> 9485  
 agcttgaaga caagactata cgaggatatc tccttgggta tagcaatata tctaagggtc 60  
 accgtgtcta caacttgcaa actaagaaac tcgtcatcag tcgagatggt gaagttgatg 120  
 aatatgcttc atggaattgg gatgaagaaa aagtggagaa gaacgttctt atactcgttc 180  
 aactacctca agaagaagat gaggaagaaa acccagggtga accaccttca cctccatcac 240  
 aacaacaaga agagatggag tatccataca gaaaaatttg caccagtagc tcgtcttaat 300  
 aagacaaagc tcaactctga tggcaccata cagaaacaca aggcgaggct agtagctaaa 360  
 ggttacttac agcaaccggg aatcgactac aatgagacat t 401

<210> 9486  
 <211> 495  
 <212> DNA  
 <213> Glycine max

<400> 9486  
 tgataagaat ggatcgaact cctctccttt aaaataacag aattaatggt aataaggagt 60  
 gatatttgaa agaaagccac aacatttatt tttcttactt atttaaaagt taattttacaa 120  
 agtaaaaaac ttggaacaat tcgtttaata ttaattagat cttgacttta atatcttcaa 180  
 attaattctt ttaaaaaaaa tatcttcaca ttaatgtgca tgaaacaaaa caaaaaataat 240  
 tcaattaaag aaacatctac cttataattt tagagataat tggcgattcc cgatataaaa 300

tacaaagaca gtcgactttt caattttttg gtagatggca aatattggat ttggtctttc 360  
 atagaatttc aatgaactca aagtattcct ggtaaggtaa gtatttttgt acattgaaca 420  
 tttttttata catataagtt taaaaatatt taaaagaaga ttaatttaatt tgatataatg 480  
 ttaaaaaaaaa tgaat 495

<210> 9487  
 <211> 453  
 <212> DNA  
 <213> Glycine max

<400> 9487

agctttgcat acttccccgc cgcgtttaga agatcacccg cggcgctccgc caactttgcc 60  
 ttgtccacct tgtcgtcttc cctctttagg gcggactgcg ccgcctccgc caccagcttc 120  
 gcgctcgca tgagctcggt ggtcgactgc tcgctgggtg gcttaatggt atgggattct 180  
 tcggaagcca ttgatacaat gttacttgct tattgcagct tttgagagaa ctggtctgtg 240  
 ttatttatag atgtcactat gatattagta taaaagtgt tctttcaaata aataataaac 300  
 tttatattta attattttatt tacttgctat agcctctaaa tttatctttt ttaatacctt 360  
 aaaagaaatt ttaagttaa cattttaaat tattaaaaaa tagaatattt ggtgttaaaa 420  
 gttaacaaa ttaataata ttaatccttt tta 453

<210> 9488  
 <211> 493  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9488

tttagcaaca tttttattta atgttattga aaaaatattc ctaaaagcca catgtgtagt 60  
 agtgataaat catgcacttc aatcgttatt ttgaatagaa taagaaattt tagcaaagag 120  
 taaagagaaa tacaacaag aaagtctacg cacaatgaag tgcagaaaaa aaaactaaga 180  
 atgcaacaag aatgcccaat cccattttatc atagagctta gtgaatctaa gattcacatt 240  
 ggttccaaac actaagaat taagttagt aattttggaa atcattgagt actatttggt 300  
 atatttattt gaatgcattg atgtgttaat aatattattg aatgctttct ttattgagaa 360

tattacatca ataaattgtg gttgatcttt tagaatttat tttattcact gggattaatg 420  
 ttgaaagtga ggagacttga acacttagtt ttcttttaat tacatttggt tcagaatana 480  
 gtgtacgatg tgg 493

<210> 9489  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<400> 9489

agcttgtagg cattggatat tctttattaa tggagtcatt tgctttctga tgttcattgg 60  
 cagcagaatg gagaaggaag aaagatgatt ggagacacca cttcaaggag aagatgagtc 120  
 aaacacaggc tcaccaccat aggaagccat ggataagagc ttgaaggagg agaaaatgag 180  
 gggaggtaga aggagagaa gaggacgaaa ttttgtatct caaatgaggt ctgaactttg 240  
 aattataatt ttcaaatgat caaagttgaa aaacgcaca cacctggcct ctatttatag 300  
 cytaagtgtc acacaaaatt ggagggaaat ttgaatttct attcaaattt cacttgaatt 360  
 tgaaattgaa tttgtggagc ccaaaatttc actaaa 396

<210> 9490  
 <211> 266  
 <212> DNA  
 <213> Glycine max

<400> 9490

tgctttgaga aaaatctaac gacattttct tttaactcgg atgtctaate gagccctgca 60  
 atatatcgag acgctcgtaa ttgaaaacgg aagctctaag aaaagtcaaa cgacaataac 120  
 ttttaacttg gatgtctgat cgagccctat aatatatcaa gacgctcgaa attgaaaacg 180  
 gaagctctaa gaaaagtcga acgacaataa cttttaactc ggatgtccta ttgagccctg 240  
 taatatatcg agacgctcga cattga 266

<210> 9491  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<400> 9491

ttgatgcaac atttgagag gttaaatgaaa caaccagatg atgcgctcca tgagaggttg 60  
 gatcaaatgg agaatagaga tcataatgaa gaacaaagga ggagaaaagg gaatgattgt 120  
 gtccctagac aaaaccgaat tgatggtatt aaactcaaca ttcctccatt taaaggaaag 180  
 aatgatccgg aggcctacgt tgagtgggag atgaaaatag agcatgtttt ctcatgcaac 240  
 aactttgagg aggaccagaa ggtgaagctt gccgccacgg agttttccga ctatgctctt 300  
 gtgtggtgga acaagctacc aaaggagaga gccagaaatg aaaagccaat ggttgattca 360  
 tggacggaga agaaaaa 377

<210> 9492  
 <211> 326  
 <212> DNA  
 <213> Glycine max

<400> 9492

agcttatgac cattcgaatt tctcatgtag ttcccgctgt tcaatttcga gcgtgtagat 60  
 gagttatgtc cccgaatcgg acatctgtgc gaaaagttat gaccattcga ttctctcgag 120  
 agcttccggt gtccaatttc gagegtctcg atatattatg accccgaatc ggacatctga 180  
 gtgaaaacgt atgaccatc cattttctcg agagcttccg ttgctcaatt tcgagccgtc 240  
 tagatgaaat atgtccccc atccaatcat ttctagtga aacttatgac cattcgaatt 300  
 tctcgagagc tctctgttgt tcattt 326

<210> 9493  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<400> 9493

ttcatgggg ctctggataa atttttaggg tggaggatg accaacaatg ctaggcaatc 60  
 aattcgtggg gctccagact cgatgctgga ggatgcatga atgataagca ttctataggg 120  
 ctccggataa gatttgaagg tggaggatg acgaacaacg ctaggcaacc aattcgtggg 180  
 gctccagact cgatggtgga ggatgctgaa atgacaacca attcatggaa ttccgaaaaa 240  
 gatttaaggg tggaggatg acgaacagcc cctagaaatc aattcgtagc gctacagact 300  
 cgatggtgga tgatgctga atgatttgca ttttaaggag atccggataa ggattgatgg 360



<210> 9494  
 <211> 282  
 <212> DNA  
 <213> Glycine max

<400> 9494

agcttggccc ccaacactct gttcaagctc tcccaaaatc tagaggtaaa tctaggatct 60  
 ctatcagata ctatgctaga tggcacacca tgtaacctga caacctcact tatatacaag 120  
 gtgggtcaact tcttcaagga aaatatgata ttaatgggaa cgaagtgagc agacttaatc 180  
 aatctgtcaa caataaccca gatagaatct aaacctctag gggctctaag tagtcctacc 240  
 acaaaatcca tggaaatact gttccacttc cactggggta tc 282

<210> 9495  
 <211> 490  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9495

ttctnntta tgaaacatat ngaaactgat ttgctagtct tctatggcca tttgtagttt 60  
 cctcttcccc atgtctacca cacagcttgt ggtggataga aaaggctctc caagaattaa 120  
 gggaatgtca gcatcttcat caatgtccat cactacaaaa tcagctggaa agatcaaatg 180  
 tttagacctta accaaaaggt cttcgatcac tccatatggg cttgtgaatg agcgaccaac 240  
 catttggagg gtcatgcgtg tggcaattat ctctatctct ccaagttgcc ggcacatgga 300  
 gagagggcat taattgatac tagctcccaa gtctatgaga gctttaccca caaacacctt 360  
 ttgccaatgg aacatgggag agtgacactt tccggaatct ttgtgccttt aggggaaaga 420  
 tgcgttgaat acccacacta caatttcctt tcaataactaa tcataacctg gggatttccc 480  
 gggttttttt 490

<210> 9496  
 <211> 610  
 <212> DNA  
 <213> Glycine max

<400> 9496

agcttgtaat aaataaataa aaacaaagtt ctttacaagt ctttacttaa aacggaacaa 60  
 ggaattaaag aatgaccaag cttgattaca cacactccct aattgttttg ttgtgtgttg 120  
 ctataattag atcatgtctt acaaaaagga gatctaattt aagaacattt aaatacaaaa 180  
 gtgtcatctc ttacttttta tctctagtat gaattatata ataacatcat atttacgttt 240  
 aattatttga cattcgaatt aataaacttt aaatacaaaag aaatttaaag tggatggac 300  
 gatcgacca cagaaatatg taatccttta acttcaaatt atgtagcatg aaaaaatcta 360  
 aaataacaag aatgggttagt ttactgaaaa gatcctatta taattcgtaa agtgaactaa 420  
 tcaatattta taaatacgag tttttatttt agaacatata taatatattt taatcttggg 480  
 aaaagtgtga ctttatcatt atttaatatata ttaaaacctt aaagctaatac aatttttttt 540  
 tacattatta tctcccaaaa aaattatcct aaattttttt atggaaaaaa ttttttaaaa 600  
 ttttagctttt 610

<210> 9497  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<400> 9497  
 tcacatgatt gatagtgggtg ttagatttgg tcaatttgaa ggcaagatat gggaggagtg 60  
 ataaaaatttt cactgaattg cttgtgttgt tgaagaagat gatccctaaa gataacaagt 120  
 tgttgaatat tcactatgag gtgaagaaaa tactatgtcc tattagtatg gaggaccaga 180  
 aaatacatgc atgccttaat gattggatac caaaaaatga gtttgcagaa atgcataagt 240  
 gccctacatg tgggggtatcg tgatacaaaag tgaaggatga tgactacagt aatgatgaaa 300  
 gcacacaaaa aaaccatcca acaagggtgt gttgctatct tccaataatt tcaatgctta 360  
 agtgattctt tgcttatgga g 381

<210> 9498  
 <211> 457  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9498

agcttttagtt gcccttatt accttaaata aacaaagcct gtggttaacta tgaattcaca 60  
 aaggatcac aattaaagaa attcaaatac ttcaaggatt gcagacaatg tggtcacaac 120  
 taataaattg cagagctaaa aacttctaac taaatgctta ggtgtaacat aaatgggaaa 180  
 atcaaaattt tgatacttac tgggtatagt tcaaaatcaa tatctggccc aatgtttaat 240  
 atgttcagaa cctcagcttt tgccaagtca tectatttaa cacttgtaa gaactcattg 300  
 atgtctcttc ttgtttgaac agaggcagca gtgtcaacca aataatcata aacctgctag 360  
 atatacaaca cattcatcta ccaataaaaa cttacaagta ttcctattta ttagaaaaac 420  
 caaatctaac cttgtatnca gactatgcta ctttggc 457

<210> 9499  
 <211> 490  
 <212> DNA  
 <213> Glycine max

<400> 9499  
 tgtaatcgat tacacacaaa ctgtaattct attaccagag catattttca gaaaatattc 60  
 tcaacagtea catcttttta ttgggttctt gaatggctat caaaggccta tatatatgtg 120  
 acttgagaca cgaatttgaa aagagttttc caaaacaaaa aggtcttata ctcttaaaaa 180  
 gcaaaatcca tttatctctt tacaatttc ttggccaaaa cacttgatgat tcaataagga 240  
 attatttgag tgctcaaat gtccaatcta tctctttcaa gagagatttc ttctgtctt 300  
 cttctttatt ctgaaaagg ataaagagat cgagggtctc ttgttgtaa agaattctaa 360  
 acacaaagga aggattgtcc ttgtgtgttt aaaacttgta aaaggaattt acaagatagt 420  
 ggaactctca agcgggttgc ttggggactg gacgtaggcc ccaagggtg gccgaacca 480  
 gataaatctg 490

<210> 9500  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<400> 9500  
 agcttgaat gtagccaac gaattgtatt attataggcc ttgagtcata agcgattctt 60  
 ggcattctgt tctgaacttt gcacatttat gatgttcttc atgtgctttg actgattcaa 120

caagtcttta caagccttta ttgcattgat atgtggcgag caaggactat ctccaatgtg 180  
 attaacaat gcacaat ttcagcatta acctttctac atgatctaaa tccttgtata 240  
 ttaagacatt tgatccaaaa atgatcactt tgctttgtac tgaatagatc gcataacaga 300  
 cagttaactt tatcattaaa tggggaatac tttatcccaa aatgaaacat tttaaaccaa 360  
 gtacattgga aatgccttgg atcgttctct ttaaaaaagg gtaattttgg aattttat 420  
 ggtatggacc ccctttgata 440

<210> 9501  
 <211> 313  
 <212> DNA  
 <213> Glycine max

<400> 9501

tataatatat tgatagctc gaaattaaac ctcggaagct ctccacaaat tcaaatggtc 60  
 ataactattc acacggatgt tcaattatgg cgaatcacat atcgagacgc taaaaattga 120  
 acagcggaag ctctcgagaa attcaaatgg tcataacttt taacactgaa ttccgattca 180  
 ggattataat atatacagac gctcgaaatt aaacattgga aggtctggag aaattcaatt 240  
 ggttataact ttccacacgg atggccaatt cgggcgata atatgtcgac acgcttgaaa 300  
 ttgaacaacg gaa 313

<210> 9502  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<400> 9502

ttgatgcaac atatggagag gttaatgaaa caacgagatg atgcgtcca tgagaggttg 60  
 gatcaaatgg agaatagaga tcataatgaa gaagaaagga ggagaagagg gaatgatggt 120  
 gttcctagac aaaaccgaat tgatggtatt aaactcaaca ttctccatt taaaggaaag 180  
 aatgatccgg aggcctactt ggagtgggag atgaaaatag agcatgtttt ctcatgccac 240  
 aactatgagg aggaccagaa ggtgaagctt gccgccacgg agttttcca ctatgctctt 300  
 ggggtggtga accagctaca aaaggagaga ccaagaaatg aagagccaat ggttgatata 360  
 tggaccgaga tgaaaaagat 380

<210> 9503  
 <211> 334  
 <212> DNA  
 <213> Glycine max

<400> 9503

agcttataat atattattac actcgaaatt aaacatcaga agctctcgag aaattcaaatt 60  
 ggtcataact tttcacccgg atgtccgatt atggcggaatc acatatcgag acgctcaaaa 120  
 ttgaacaacg gaagctcttg agaaattcta atggtcataa cttttaactc ggatgtccga 180  
 ttcaggcgca tcacatatag aggcgctcga aaaggaacaa cggtagctct cgagaaattc 240  
 tcatgggcat aactttccac actgaggggc gattaaggat tataatacct cacgacgctc 300  
 gcaatttttc actcgtaagc tctcaagaaa ttca 334

<210> 9504  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<400> 9504

tctgggtggga catcttgact tgcttttcta tctgacattc accacagatt ctgccttctt 60  
 ctatttacag attgggaatg cctctaaca cacttttgac aatgattttt ttcatacctc 120  
 ttaaatagcca atgtccaaat ctttgatgcc ctattttgac ttcactttct ttggagaata 180  
 gacatgtgga ggaataactg gcttcttgag gtgtccatag gtaacagatg tactttgatc 240  
 tgctgcctt cattataact tcaactttct tatttgtaa caagcattct gactttgtga 300  
 agttcaaatg gaatccttta tcacacagct gactgatgct gatcaagttt gcattcagtc 360  
 cctttaccaa caagactttg t 381

<210> 9505  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<400> 9505

agcttgagaa actcatccaa ttccacagta tacaccatca gatgaaaccc aatgaaaatt 60  
 ttgaagcaac tgagcgagcc aaagatgaac cgaggccaaa ccaagggcct tcccaggaca 120

cactcttctt ccagaccga aagggtgcaa cctcaaatca gacccatta tgcacacac 180  
 ctcttcaca aaccgctcg gctaaactt ctgggctcg gccacaccc tctcgtcgtg 240  
 ggttatggc cacaatgtca ccacgcggt ggtgcccttg agaatcacgt gcttgccgc 300  
 aaccgtaacg tctgtcacag caaggcgagc ccacgagagt agcgggctg gtgggtgcac 360  
 acggagggtt tcttttacta tgcactgaag ggagcgcagg ttt 403

<210> 9506  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<400> 9506  
 agcttaagct ctttcaattg cacaatgctc ttaatatattg aagagtatcc ttgtggaacc 60  
 ttcaccgcac gaagacactg acaaaaactt atcttctcct tcttgacaa agtatggcag 120  
 gctgggggca agtaaatctt ctcccatca gacctggat gcaactgtga tcttataccc 180  
 atatcagcta gatcttgacg ggtattcaag ccatecttcg tcttgccctg aatgttaagg 240  
 agcgtcccaa tcacactgtc acaaacattt ttctccacat gcataacac aatacaatgt 300  
 ctaacgtcaa gatcacacca gtacgaaga tcaaagaaaa tggacctctt ctcccatatg 360  
 caactctgaa ctttatectt cttttgggtc ttcccaaata cagtgtttat gtgttgaacc 420  
 cgctgatata cc 432

<210> 9507  
 <211> 484  
 <212> DNA  
 <213> Glycine max

<400> 9507  
 tcaagaaaa gatggcctca gcaaaactct tatttcata agggaattct atcaatagac 60  
 ctccaatctt taatggagag ggttaccatt actggaaaac ccaaatgcaa atttgtattg 120  
 aggcaataaa cctaaatatt tgggaagcca taaaaatagg gccttatata ccaccacag 180  
 tggaaagaat tacaatagat ggcagttcat caagtgaag tataacttta gaaaaaccta 240  
 tagatagatg gtctgaagag gatagaaaac gagtacaata caatttaaaa gccaaaaaca 300  
 taataacac tgccctggga atggatgaat atttcagggt ttcaaatgtt aagagtgcata 360

aggaaatgtg ggacactctt cgattaacac atgaaggaac tacagatgta aaaagatcta 420  
 agataaatgc cctaactcat gagtatgaat tatttagaat gaatgcaaat gaaaatattc 480  
 aaag 484

<210> 9508  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<400> 9508  
 tgcacacaag attctccttg cctggcactt caaaaccttt tgggtggggc atataaatgt 60  
 ctcccgctaa atccccatgc gagaatggag ttctaacatc taactgctcc aagtgaagat 120  
 tctttgtagc tacaatactc agaataactc tgatggtagt catctttaca actaaagaga 180  
 agatctgtgt gaaatcaatt ccttgttctt gctgaaacct tttcaacaca cgtctcgctt 240  
 tgtatcttct tctaccgtca gattctttct ttagcctata caccacttta tttgttaaag 300  
 ctttctttcc ttctggaaa gtaattaaaa accatgtctt attctcttga agggatgaca 360  
 tctcatgttt cattgctagc tcccactaaa tagagtcac 399

<210> 9509  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<400> 9509  
 tcaacatcag accacttcca ggggtgctgga actacttctc atggacttga tggggcctat 60  
 gcaagttgaa agccttggag gaaagaggta tgcctatgtt gttgcggatg atttctccag 120  
 atttacctgg gtcaacttta tcagagagaa atcagacacc tttgaagtat tcaaagagtt 180  
 gagtctaaga cttcaaagag aaaaagactg tgatcatcaag agaattagga gtgaccatgg 240  
 cagagagttt gaaaacggca agtttactga attctgcaca tctgaaggca tcaactcatga 300  
 gttctctgca gccatcacac cacaacaaaa tggcatagtt gaaaggaaaa acaggacttt 360  
 gcaagaagct gccagggtca tgctttatgc caaaaaactt ccctataatc tctgggctga 420

<210> 9510  
 <211> 303  
 <212> DNA

<213> Glycine max

<400> 9510

acatctaact gcttcactag aggatacttt gtagctgcaa gtctcagaat agctctgatg 60  
gtccatatct tgacaactac aaagaacatc tatgtggaag agattcctcg ttgttgctga 120  
aaccctttca ccacaagtct cgcttctgat cttcttatac cgacagattc ttccttttagc 180  
ctatagaccc acttattctg taaagctttc ttttctctg gaaatttcaa tataaaccat 240  
gtcttattct tetgaagggg ggcattctatt tttattgtag ctccactaat agagtcattc 300  
cct 303

<210> 9511

<211> 280

<212> DNA

<213> Glycine max

<400> 9511

tgaatcggac atccgtgtga aaagtgatga tctttctatt tactcaagag ctccattgg 60  
acaatttcga acatcgtgat atattataag cctgaatcgg acgttcgcgt gaaaagctta 120  
gaccatctgt atttatcacg agcttacgtt gttcaattac tagcccttg acactttatg 180  
cgctgaatc ggataccct gcgaaaagat atgaccattt gaatatctgg acagcttttg 240  
atgtttaatg gcagcgttcc aatttattat tagcccgaa 280

<210> 9512

<211> 373

<212> DNA

<213> Glycine max

<400> 9512

tcaacattca atttcgagtg tctcgatata ttacgggtct caatcagaca tccgagtaaa 60  
acgttattgt cgtttgaatt ggctcaaagc ttcaacattc aatttcgagg ttctcgatat 120  
attgcgggac tcaatcagac atccgagtaa aaagttattg tcgtttgaaa tggctcggag 180  
cttcaacatt caatttcgag agtctcgata tatgatggga ctcaatcaga catccgagta 240  
aaatgttatt gtctgttgaa ttggctcaga gtttcaacat tcaatttcga gggctctgat 300  
atttaccgga ctcaacagac atccagtaaa agttattgtc gttgaatggc tcaagcttca 360



<210> 9513  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9513

tccatcaagt tatgaccatt tgaattttct gagatcttct gtggntcaat ttcgggcgtc 60  
 tccatatgtc atgtgectga atcggacctc cgtaagaaaa tttatgacca tttgaacttc 120  
 tctagagctt ccgttgttta atttcgagct tctcgatata tgatgtgcct gaatcggaca 180  
 tccgagttaa tagttgtgac aatttcaatt tctccagagc ttcctgtgtt caattttgag 240  
 cytctcgata tgtgatgttc ctgaatcggc cctccgtgtg ataacttatg accatttgaa 300  
 ctgctctaga tcttctctgg atcaatttct ggcgtttcca tatgtgatgt gcttgaatcc 360  
 gacctccgtg tgaaaagtta tgac 384

<210> 9514  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<400> 9514

ctaagctatg ctgtacatt tatatagacc tcttcagcat ttttctttct tctcagaata 60  
 attatgacct ttcgagcaat agatacaatc caggttgag gaatcatcaa tatctgagat 120  
 ggacaagtcc tccataacaa caataacctg tccctctctt ccagaatgtt gctgggtccaa 180  
 gcaagccata tgttctctct ccaatacagc cacatgttgt aggaagtaca tatacttttg 240  
 acttgcttta tgaggtagag gctaaggaac cttcttcttc tcttaccttg agtctctcca 300  
 ttggtcaacc accaccaca ccagagttga agccttacc agctaacctc aattatgctt 360  
 acttgaggga caaggaaata gttccagtga tcac 395

<210> 9515  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<400> 9515

tgaaggtaga agacgatgaa tggagggaga atgtgtctta catggcctct atttatagct 60  
 taagtgtcac acatggcctc tatttattca aatttcactt gaatttgaaa atgaatttgt 120  
 ggagccaaat tttggagtc aatctcact aattatgatt actgaatttt agctatgggt 180  
 cagctcacta atccaagatc aagtccaaga ttctccacta agtatgggta ggtgtcatga 240  
 ggcatgtaaa acataaaaaga catgcacaaa gtgtgactat atgatgtgac aatgggggtgt 300  
 agcaagcaaa tgctcacctc cccctctaaa attaaatgga tgggcttctc tcaattaatt 360  
 aaatttattc caaccaca 378

<210> 9516  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<400> 9516  
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 ctcatcacc cttacagatga ttgaaaaaaa ctcttaattg aagtcaaagc acgaaactgc 120  
 gccgataccg gtgactagtg agtaggtctt ccagtgggtt gaacacctga atactgtatt 180  
 cygaaagacc caaaagaagg ataacagtaa gacttgcata tggaagaaga ggtccatttt 240  
 ctttgatctt tcgtatttgt ctgatctaaa tgttagacat tgtatcgatg ttaatgcatgt 300  
 agagaaaaat gtatgtgaca gtgtcattgg ggcgctcctt aacatttaag gcaagatgaa 360  
 agatggtctg aatac 375

<210> 9517  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<400> 9517  
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 ctattttcag attgggaatg cctctaacag cacttttgtc aaggattttc ttcatgcctc 120  
 ttaagtgcag atgtccaaac ctttgatgcc atattctgac ttcattcttct ttggaggata 180  
 gacatgtaga ggagtagctg gtttcttggg gtgtccatag gtaacaattg tcttttgatc 240  
 tgctgccctt cattagaact tcactcttct catttgcac caagcattct gactttgtga 300

agtttacatt gaatccttca tcacacagct gactgatgct aatcaagttt gcagtcagtc 360

ccttcaccag cagtactttg ttcagactag gaagttcatc atgaactagc ttcc 414

<210> 9518  
<211> 384  
<212> DNA  
<213> Glycine max  
  
<400> 9518

actaagctta accaagggag atggaccatt tcaagttctt gatttaatca atgacaatgc 60

ttacaaagtt gagctgcccg gtgagtataa tgttagttcc accttcaatg tctctgattt 120

atctcttttt gatgcacatg gagaatccga tttgaggaca aatccttctc aagagggaga 180

gaatgatgag ggcgatgacca atagcaaggg caaggatcca cttgaaggac ttggaggacc 240

tattgatgag gacatgacca acagcaaggg caaggatcca cttgaaggac ttggaggacc 300

tatgacaagg gctagagcaa ggaaagccaa tgaagctctt aacaagtgcg gtccatacta 360

tttgaataca gccagtttc agga 384

<210> 9519  
<211> 409  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9519

ntatccaact taaacatgga aagaagacaa tatatatctg gctctgaaga tttctaaaac 60

cttatcaccg gtatcgacga ttaagaaag cttttaatga gagtcaggaa aatgaaagtg 120

ccccaaaacc attagctaga aaagaagtgt atgatcgggt caaggacata gtaactatca 180

ttgggaaaaa ccaaaaaaag ccatcatctg agacaaacat atggaagaaa aggtcaatat 240

tctttgatct tccatactgt tctaactctg atgttagaca ttgtatagat gtgatgcatg 300

tgggaaaaaa tgtttgtgat agtttaattg acacccttct taacattaaa gggaagacaa 360

aagatggttt gaacagtcac caatacttgg tgaaatggga tccgacatc 409

<210> 9520  
<211> 388  
<212> DNA

<213> Glycine max

<400> 9520

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atagagctac agacgtcttg gaattgatac atacagacat ttgtgggtca tttcatatac 120  
cttcatggaa tggttaacaa tattttatat cattcataga tgattactcc agatatgcac 180  
acctgtatct tatacatgaa aagacacaat ccttggatgt gttcaaaaca tttaaagttg 240  
ttgttgaaaa tcaactcadc aaaagaatca atagagtcag atctgaccgt ggtgggtgaat 300  
actatgtgcg atatgaacgg tcaagtgaac aacgtcctgt gccttttggc ggaacctata 360  
gaatgtggaa ttttccatag ttacacat 388

<210> 9521

<211> 329

<212> DNA

<213> Glycine max

<400> 9521

tctacacaca caatgatcct accaagaccc ttgcatat catcagtggc agacattatt 60  
ggacttctgc cactcttaaa ttcagccaag acccaatccc tttcatcctg gtttttatca 120  
ccatggatgg atagtgtggt ccatccatac actctcattt gtctggtaac ttgaacacat 180  
cccttttttg tctccataaa tattaataatt cggctcccggt ccatcacttc ttttagcagc 240  
ctgattttatc tacattttca agctaaagtg ttaatttga aagaaaaagc atcaaacact 300  
gtcgggtctat tattattgat gacgcaaac 329

<210> 9522

<211> 337

<212> DNA

<213> Glycine max

<400> 9522

acaaatgggt gttgggtcaat gtaccacatt taatagcaca cactaaaaga acaagaaaaa 60  
cagaccaatt tctaggcgctc tcagaaaaaa acttagacaa gacagttcac ctaataagtt 120  
tttgaatag tagtaaacat atttgtgtaa atacataacc taccagagtt cattggactc 180  
catcgctgga accgaaaagg agatgggtatg ttgagaacag aagcaccaca aacactgtta 240

tgcttgagaga tgggaagata ttgccctcgg aaaaaccctg gcgtccaatt gccgatacat 300  
gatagagcac aaagaagaag aatataagaa agcaaca 337

<210> 9523  
<211> 402  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9523

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gatatgatgt atttaagta tgaaaagtct ttatacctaa aaaatgtttt aaaaaaatat 120  
ttcttaattt atcatgatat ttgtgtaaaa tattttattga taatgaattg ttattaaata 180  
actagctggg actgtttttt ctctagtttt acacaataac tgataaacca aaaggcctaa 240  
tttgagaaat ataagttata caaacctaat gaacacttat aatatattat gccataaaaa 300  
tatatttaat tgtatatata ttagaaaatc tccaaccaat aaatccatca taggtttctt 360  
atttaaagag aattttatct aatacatctt agagtaaata ac 402

<210> 9524  
<211> 442  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9524

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aatctctgga tgaagcaaca actagaagac ttggtggtaa ctcttgatta cattcctcta 120  
aaatatgata acaactgtat aagaatcctg tcatgcattc tagaactaaa catatagaga 180  
ttaagcatca tttctaagag atcatgtatc taaagggtgat tgttgcatg aatttgttgg 240  
tagtgaacat caactagcta acatctttac taaacctctt gctagaaata ggttcttcta 300  
gtcaagggtg tctacacatg tggtagtgct gacctgaag gtaatctttt ctttactatt 360  
aatggagtag acattgtcat agatgctgct gtgtgaaagg aagttattag tctggacatt 420  
ggtggagtc gcaagtttga tg 442

<210> 9525

<211> 349  
 <212> DNA  
 <213> Glycine max

<400> 9525

agcttgcata caagattctc cttgacctgc acttcaaaac cttcttgttg ggcatatag 60  
 atgtcttcct ctaaaatccc atgcaagaat gcagttttaa catctaaactg ctccaagtga 120  
 agattctctg cagctactat gtcagaata actctgatgg tagtcatctt tacaactgga 180  
 gagaagatct ctgtgaaatc aattccttgt ttctgctgaa accctttcac cacaagtctc 240  
 gccttgatc ttcttctacc gtcagaatc ttctttagcc tatagacca cctattctgt 300  
 aatgccttct ttcttctggt caatttagtt aaaagaccac gtcttattc 349

<210> 9526  
 <211> 342  
 <212> DNA  
 <213> Glycine max

<400> 9526

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 aaacatagat aatagataaa taagctcaga cataaaatgg aaaatatgtg cactactaca 120  
 tttggcataa taagagccat gaaggttaaa cctgtggtgt ggtataatcc cagtagattg 180  
 taggaacttt cacataatcc atgttcttaa agttacttgc aaacaattct gcattagcag 240  
 cctccttggg gtaatcaatc tctgaaaat tattaatcca tgttgagta acaggatccg 300  
 agaattgatt cgtgagaaac acgtgcatac atcataccat aa 342

<210> 9527  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<400> 9527

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 ccacataaac taacagagca atgatagtgt tgaatccatg cttgagaaac aaagaatgat 120  
 atgaagcaca ttgcttgatc ccatgtgaga ttagaaagaa agacagcctg gcataccact 180  
 gcctgctggc ttgtttcagt ccatatagct aataacattc ttatgctgag gcataataagt 240

taaaacctta atctttgcat tcattgctc tatccatata ggatccttag aagcttcatt 300  
 ataggattga ggttcaagac tttgtgtaat ggataaaatg atattgtgat aagaaggaga 360  
 caatttgcta tatgaaagaa caatattata ggatagagac aagta 405

<210> 9528  
 <211> 331  
 <212> DNA  
 <213> Glycine max

<400> 9528  
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 tgcagtgggt atggcatgga gctctcggat atatgtggag gcgtgatgta accgggggca 120  
 gaaaaacttg ctaaaataag ccaagggatg gccctgttgc atgagaacaa ccccatcgcc 180  
 gatacctgaa gcatcagtc taagtgtgaa tggtaaatgaa aaatcatgga tggccaagac 240  
 tggggcctgg gtcattggctc gcttgagtcc ctctaaagcc gattgagcac cctcgtccca 300  
 atggaagtta tccttttgta aactgcggt t 331

<210> 9529  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<400> 9529  
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 ccctatcctt gcaacaagtc ctagggaagt agacacggag atggacaaga aaatccgcag 120  
 tattgtgagt agcattttga aagacgcctc tgttcctgat gctgagaaaag atgttccaac 180  
 atcctccacc ccagatgttg ctgtccctga agctgatgaa gatgtcccaa catctttcac 240  
 cccgaatggt tctgtgcctg atgttgagaa agatgttcca acatctttct ggccaaatgc 300  
 tgaagaactc tcttccccc gcaaagagag atcatcagag gaagatgac aagcctcaga 360  
 ggagaatcct gcaccacggg caccaaaa 388

<210> 9530  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223>        unsure at all n locations  
<400>        9530

ggcacatgta cagacccatg attgtcttta ccagttgagc ctcagcctgc agagccatgg    60  
ttttacttct ttttctgtgcc ctactccgga ccagttcang gcagaggtcg catagcctgg   120  
agattggcct gaggccccggg caggagaggc accagcagag gctccccgacg aggcagatga   180  
tgccccgcgag gacgaagaga tggtcgattt acttgatttc ttacgaggga gcggagccac   240  
atgattggga gatccctgtg tccatatctt ttttctgttc catttttctt gttatatatc   300  
actttatttc tgcttgacta acggactaac gtttctgttc ttgatgtgtt gattgacttt   360  
tgtttttgac atacatatca tttgagttgg tacgtccgta tatgt                      405

<210>        9531  
<211>        323  
<212>        DNA  
<213>        Glycine max

<400>        9531  
agcttggtca cctccttttt caccacatct agaatgatgg ggttgagtcg ttgctgtggc    60  
tgctcactg gcttagctcc atcctctaaa agtatcctat gcattgcaggt agatgggcta   120  
atgccaggaa tgttttctaa agtccatcca atggatttct tgtgcttctt gagcactagc   180  
agcaacttct cctcttgctc agtagcaagg gaggcaaaga tgatcactgt aaatttttcc   240  
ttgtctcaa agtaagcata cttgaggttt actggttaagg acttcaactc tgggtgtgggt   300  
ggtggctgaa cagtgggagg aac    323

<210>        9532  
<211>        434  
<212>        DNA  
<213>        Glycine max

<400>        9532  
taagctcctt caactgcaca aggcctctaa tgttcgaata gtatccttgt gtaaccttca    60  
cccgcagaag aacttgacaa aaacttatct tctccttttt ggacaaggta tggcaagcta   120  
ggggcaagta aattttcttc ccattagacc ttggatgcaa ctgtgatcgt atgccccat   180  
cagctagatc ttgacaggta ttgaagccat ccttcatctt gccttgaatg ttaaggagag   240  
tcccaatcac actatcacia acatttttct ccacatgcat aacatcaata caatgtctaa   300



catcaagatc agatcagtac gaaagatcaa agaaaatgga cctcttcttc catatgcaac 360  
tcttacttat atccttcttt tgggtcttctc caaatacatt attcacgtgt tcaaccgcgt 420  
gatatacttg ctca 434

<210> 9533  
<211> 445  
<212> DNA  
<213> Glycine max

<400> 9533  
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caacagtcac atcttttcat ttggttcttg aatggccatc aaaggccctat atatatgtga 120  
cttgagacac gaatttgcta agagttttca taacaaaaag gtcttatect cttaaaaagt 180  
aaaatcgttt tattctctta caaatctctt ggccaaaaca cttgtgatta aataaggaat 240  
tatttgagtg ctcaaatgtt tcaatctatc tctttcaaga tttcttcttc tcttctttat 300  
tctgaaaagg gattaagaga ccgatgatct cttgttgtaa agaaatctat acacaaagga 360  
agggttgtcc ttgtgtgatt cagatattgt aataaacctt tacaagatag tggaactctc 420  
aacgaggggtg cttggggact ggacg 445

<210> 9534  
<211> 428  
<212> DNA  
<213> Glycine max

<400> 9534  
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tcattgttgg aactaaagac aatatatatt ccatttccag aatatagcct aattaccttt 120  
gcaactgact ttgaagggtg ctctcccttt agtctaacat caacacactg cttcacctta 180  
tcttcaactaa gctttgggtg tgctgataa aatccaatga acaaaatcag aatgtgtaaa 240  
atcaaaaaat tgaaagggga agaaaacaca aaaataatta tcaacagaac agcatcaagt 300  
aaatattggt acccaagtca caaagctttg ctgtcctctg ggtagtgtat gatcaaccgg 360  
tttcggttca gttaagagtt tcactaatat aacttcgaag ctatagacat cactctttga 420  
agtgagtt 428

<210> 9535  
 <211> 365  
 <212> DNA  
 <213> Glycine max

<400> 9535

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agcttctata gaggtttttg cggactgctt gtcttatcat accagcaata ccttcaccta 60
caatattgaa aagcaaggga actaggggat ccccttgtct caaaccctt gtaaggataa 120
attccttaga aaggctacca ttaatcaaaa tagatatagt tgcagagcgg aggcaagctg 180
atatccatga tctccatctt gggcagaaac ccaacctaaa cagcatgtaa tccaaaaaag 240
accaagacac tgaatcatag gctctttcaa aatccacctt gaagatcctc actggtttct 300
tatttctcct tgcttctcct accacctcat tgaggatcaa gataccatgg agaatatgcc 360
tttct

```

<210> 9536  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<400> 9536

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tggggatgaa cgtggacagg gatgctagtc tactattcat tatctggact tcttggatgt 60
tagtaggact atgcatctcc aatatagttg tgcatttgct gggaatgtgt gagcataaag 120
cctaggaact tgctccacc aacccccaaa atacatcttt ccgggttaag gcgcatgccg 180
tatttgcaga tctctccgaa gacctcttcc agttctatca tgtgttgggc tatgctatga 240
gacttgacaa ccatgtcgtc gatgtagacc tcaatgttct attcgatctg ctgtttgaaa 300
attcgatcca tcaatctcta gtagtagcgt cctacatatt taaggccaaa cgcatgacc 360
ctatagctaa cagtgtcctc ttcagtgtg aatgtctgtt tcttctctatc tatagtatgc 420
atccaaatct

```

<210> 9537  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<400> 9537

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 atagacctcc aatctttaat ggagaggggt accactactg gaaaacccga atgcaaattt 120  
 ttatcgagggc aatagatcta aatatatggg aagccataga aatagggcct tatataccca 180  
 ccacagtaga aagagtctca atagatggta gttcatcaag tgaaagcata accatagaaa 240  
 aacctagaga tagatgggtc gaagaggata gaaaacgagt acaatacaac ctaaaagcca 300  
 aaaacataat aacatctgcc ctaggatgg atgagtattc cagagtttca aatcgtaaga 360  
 gtgctaaaga aatgtgggac actcttcgat caacacatga gagaactaca gatgtctaaa 420  
 gacctatgag taatgcactc ac 442

<210> 9538  
 <211> 365  
 <212> DNA  
 <213> Glycine max

<400> 9538

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 tgtaccatgc gcaagggtta gtggattgag ctctataact gaccaccata cagacctttg 120  
 cgcttacatg cagcaacctg gagcaataga acagactgat acttatgctg tagatattca 180  
 caatagacct tctcaatctc aacagcaaaa ttaatcacag ctgaacaatt atgacctctc 240  
 cagcaacaga tataacctg gatggaggaa tcacctaac ctgagattgt gcatgcctta 300  
 gcaacaacaa cagctacctg ctcttcggtt cctaaatgct gctggcccaa gcagaccata 360  
 cattc 365

<210> 9539  
 <211> 356  
 <212> DNA  
 <213> Glycine max

<400> 9539

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 acgagctttt caagttgtat gggactaagc tgcgtatgat cactgcttac catcctcaaa 120  
 gtgatggaca aactacagtg cttgattgag tcttggaaca atatttggtg gtgttagtgc 180  
 atcataagcc atcctatcgg gaaagtttct gcactctgct gaatggcgct acaacccac 240

tacttattta tccactaatt taacactcga tgaaattgct tatggtaagc ctactctaag 300

tctttacatt atcaagctgg aacctttgcc tgggaacaat tgatttttct gacttg 356

<210> 9540

<211> 407

<212> DNA

<213> Glycine max

<400> 9540

agcttataat atatcgatag gctcgaaatt aacatcttta ctctcgcgaa attcaaatgg 60

gcataaattt tcacacggat gtccgattcg ggcgcataat atgtcaagag tctcgaaatt 120

gaacaacgga agctcttgag aaattcaaat ggttataaaa ttccacacgg atgaccgatt 180

caggcaaate tcatatcgag acgatcagaa ttgaacaacg gaagctcttg agaaattcaa 240

atggtcataa catttatctc gaatgtgcaa tttaggcgca tcacatatag tgatattcga 300

aattgaacaa cagaagctct tgtgaaattc aaatggtcac aacttttcac actgagggcc 360

gaatcacggc tttaatatat cgatacgcct caaattaaca tcggaaa 407

<210> 9541

<211> 410

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9541

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tgatcgagtt gtgcatctcc aatatggcag tgtatttatg ggggtagct tcaatcccct 120

ggtaagtgat catgaagcca aggaacttgc ctccgcttac ccgaaagta catttttcat 180

ggtgaggcgg catgtcatat ttgtggagtt ccccaaagac ttcttcaga tccattatgt 240

gtaggctat gctttgagac ttgatgacca tgccgtccat atataactcg acgtttcacc 300

caatctgtcg tctaaatact tgggtccatca cccgtgggta tgtagcgcac gcatttttag 360

gccaaatggc atgaccctgt atacacatgg caagtttgtg gtagataatg 410

<210> 9542

<211> 371

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9542

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aagcgcccca agaaacccca gactttcttt ttagtgcatt gcttctgcat ttcgaggatg 120
gctttaactt ttccggggtc aacctctatc cctttttggc ttacgatgaa acccaacagt 180
tttcccgatt tgacctcgaa agtgcacttg gctgggttca accttagctg gtactttcgc 240
aacctctcga acaacttccg taagttgatt agatgctctt ctttggtttt ggacttagaa 300
atcatatcgt ccacatacac ttcgattttt tgggtgcatt tatcggggaa caaagctacc 360
atcgcttget g 371
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<210> 9543

<211> 360

<212> DNA

<213> Glycine max

<400> 9543

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agcttgaaac tatcatgtat caattcctct tgaaactgta tgaaagacaa gtattaaggt 60
taaaattaaa tcccaacagt aatccccaca tgaacattat ccttccttaa aatggagAAC 120
acaatttgaa tccctcaata tgatatgaca aatgaaaact cctgatatat atatatttca 180
tagcagaaca atctccaca actcattctt aaacatccga attggtgcac ttgtttgaga 240
agcaagtaat cccaatttct cactgtgata agcaagacca acctcctttc cctctctatc 300
catgtcatgc aaataaaaaa tcatatcatg aacataacca acttccttag ttcttctacc 360
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<210> 9544

<211> 369

<212> DNA

<213> Glycine max

<400> 9544

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gagccaatta agacgacaat atctttttac tcggatgact gattgagtct cgtcatatat 60
cgagacgctc gaaattgaat gttgatgctc tgagcaaatt caaacgacaa taacttttta 120
ctcggatgctc tgattgagtc ccgtcacata tcgagatgct cgaaattgaa tgttgaagct 180
ctgagccaat tgaaacgaca acaacatttt actcggatgt ctgattgagt cccgtaacat 240
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atcgagacgc tcgaaattga atgttgaagc tctcagccaa ttcaagcgac aataactttt 300  
 tactcggatg tctgattgag tcccgtcata tatcgagacg ctcgaaattg aatgttgaag 360  
 ctctgagcc 369

<210> 9545  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<400> 9545  
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 cagagtaatc aagcacagcg gaaattctgc aagttgcaag tcgtttccag gatgtcaaga 180  
 catctcacat gacatcagct ttctgcttct gctcccccctg tctccatgct cttactgcag 240  
 catcttctat cagctactag tcttttccag gatgtcaaga catctcatgt gacatcagct 300  
 ttcccttgct tccatgctct tactgcagca tcttctatca gctactagta gcttacatca 360  
 gtcacatca gcagcagcag tctcccccctc aaaatcatgt acatacaact ccccccctcaa 420  
 atcatg 426

<210> 9546  
 <211> 337  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9546

agcttcaaca ttcaattntg agcgtctcta tatattacgg gactcaatca gacatccgac 60  
 taaaagatta tcatcgtttg aattacgtca gagcttcaac attgaatttc gagcgtctcg 120  
 atttattacg ggactcaatc agacatccga gtaaaaagtt atcatcgttt gaatttggtt 180  
 acagcttcaa cattgaattt agagcgtctt gatattattc tggacacaat cagacatccg 240  
 agttaatagt tattgtcggt tgaaaatact cagagctttg gtattcaatt tctagcgtct 300  
 cgatatatta cggaactcat tcaggcatcc gagtaaa 337

<210> 9547

<211> 208  
 <212> DNA  
 <213> Glycine max

<400> 9547

agcttgtgaa caaggatgac atagaggatg tgagaagaga ggttcaaacc atgcaccatc 60  
 tctcgggtca acctaacatt gtggaactta aggggtgcata tgaggacaaa caatcgggtg 120  
 atttgggtcat ggaactttgt gcgggtggtg agctttttga tcgtataatt gctaagggac 180  
 attacactga acgtgccgcg gggtttttt 208

<210> 9548  
 <211> 283  
 <212> DNA  
 <213> Glycine max

<400> 9548

agcttatcaa gtggaattat accaaagttt ctatggcagg atagatcact ttaattaatt 60  
 ctgttttgac agccttgccct ctgttttacc tgtctttctt caaagctcct tcagcagtg 120  
 caaagaggct tatttcgac caaatgaatt ttctatgggg tggaggcgct gaattggaaa 180  
 agactgcttg ggtggcctgg gatcatatct gtgtctctaa aaaacaagga gggttacgaa 240  
 tcatagcctt caaggacttt aatagatccc cttcttatta aat 283

<210> 9549  
 <211> 351  
 <212> DNA  
 <213> Glycine max

<400> 9549

caggcactgg tattcatgtc ttatctaggc ctatagagta tgtgcatctt gaaatatagg 60  
 gaccatctag agtgaaaatt catgggtgaa gtcatactt tctcaccatc atagatgatt 120  
 tctcaagaag agcatgtctg tatgtttcga agaataaacc agaagctgtt caaatattca 180  
 tagagtggaa aacacttatt ggaaatcaac ttgtgtcaaa actaaaaata ttaaggactg 240  
 acaatggcct gtagttgttt cagagcaatt caatgagtg cgcctgaaat taggtattaa 300  
 aaggcacaaa acaatccgtc acacaccact acagaatgga ttatcagaaa g 351

<210> 9550

<211> 377  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9550

cagatgccac tctactctaa attgttaaag gatattttaa caaggtatca caagtgtatt 60  
 cactgggaaa acattgtcgt ggaaggaaat tgtactgctg tgattcaaaa gatccttcca 120  
 cccaagcata aagaccctgg gagtgtaacc attccttggt caattggaga agtcactgtg 180  
 ggaaaggatc ttattgacct gngagccagt attaacttaa tgccactctc catgtgcaga 240  
 aggttgggag agttggagat catgcgcact atgatgactc tacaacttgc tgaccgtccc 300  
 atcatcagac catattgagt aattgaagat gtgttggtca gagtaaatat tttatcttcc 360  
 acgcaacttt gcggtaa 377

<210> 9551  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<400> 9551

tytgtagccc accatctttt catagtagaa tactgataat gtgtctacta ttattgtcat 60  
 catttttttc tccgtcattg aggtgccact tgagctgcca ggtctctcca cctttgggag 120  
 tattcttttg aaggattcgt gccccccttt tgcacatgtt tcgcacttgc atcctatccg 180  
 aagccattat actgacactg tctaacgaag gcaaccatta ggtccttcca agaattggact 240  
 ccggaagggt ccaagtgagt gtaccaagta acagctaccc cagtaagact ttcttgggag 300  
 gaatgtatca gcaattcttc atcttttgca tatgccccca tctttctgata atacatcttt 360  
 agatgggtct cggggg 375

<210> 9552  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<400> 9552

agcttaaaca ttcaatttcg agcgtctcta tgtattacgg gactcaatca aacatacgag 60  
 aaaaaagtta ttgtcgtttg aatttgctct gagcttcaac attcaatttt gagcgtctgg 120



atatattacg ggactcaate aaacatccga gtaaaagggtt attgtcgttt gaattggctc 180  
 ataggttcaa tattcaattt cgagcgtctc gatattat gggactcaat cagacttccg 240  
 agtaaaagt tattgacgtt tgagttggca cagagcttca acattcaatt tcgagcgtct 300  
 cgatatatga cggaactcaa tcagacatcc gagtaaaacg ttactgtcgt ttgaatttgc 360  
 tcagaggttc aaaattca 378

<210> 9553  
 <211> 409  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9553

cttgatctgc ctctatattt taacaatccc atccctccctc cagataatga gtttctggtg 60  
 gagagtagat ggcacagccc caactccatg gatccattcc cttcctaata gcaagttaaa 120  
 attggccttg gactgtatca ccaggaatag agttgggtcga actatactgc ctacagcaac 180  
 atctacttga atggctccca aagaatagcc agttttgccc tcataattag agagcacaat 240  
 gttgtgagca gatagatcag tgtcatgtct cccgatcttg tagagcatag atcgaggcat 300  
 taagttaaca gccgctctct catctatgag cactttgttg attccaacat tgtcaacttc 360  
 tgccctgatg aacagagggg tgagatgact cttcatctga aaatctggc 409

<210> 9554  
 <211> 379  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9554

agctttggtg agacccatcc actggttttc tcccagagat gacttcaagc aagaatacgc 60  
 caaaggcaaa tacatcagtc ttctcatcca caactccatg caagtagtac tcaggggcta 120  
 aatgccttca aaaaaacatg aaaaaagttc aatggacatc cgagaccctc tgaacacca 180  
 aagagagtga aatatataag tatggtaggg tatatcatgt gataagaaga gagagacaaa 240  
 gataaatgag agatgatagt ggagtggtaa aaataatgaa atatttgtgt atcatgaccc 300  
 anaaaatata acacttttcc tttaaaaacg aagtttatcc tccaatatac tactactaat 360

gtgttttgaa actcgggtga

379

<210> 9555  
<211> 375  
<212> DNA  
<213> Glycine max

<400> 9555

agcttttgtc ggctatcgct tcaatgcatt ggacacccgt atcatgcgtc ttaaagacga 60  
catgatcttc atccgacgtt gttttgatcc tcctacggat tcttagacgt tttcttctat 120  
tataagtcc taattttcta gacattttac tattttttcc ttgcatttgg ctttagttat 180  
ttagcacttt ggtaatttt gtgttttgc ttggatattt agcatttggg ttatgctttg 240  
ctttggatat ttagcatttg gttggtttat gttttgcttt ggatatttta gattctgttt 300  
tgcaatggat gattagttat tgttattgat tgtgatgctt gctctagcta ttttgtggtt 360  
ctttatacac ctctg 375

<210> 9556  
<211> 380  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9556

agcttgtgta gatcctcagc aacctagatt ggatatatgc aaacatttat ccttagaacc 60  
acaacagcgc ccaatgcaat gaaaaaatac tatcaacagc tgtttcaaca aactctcttg 120  
tatgataccc tgataaataa tatagcaata ggtgatcaag aacacacgaa aaccatattc 180  
acaagctttc attgttggat attgttttgc atatgtggca caaaatccta ccactcacac 240  
gtcataatcc tgcagagaa caaggatatg gcaaaaaaac aaaatataaa tgtcaataaa 300  
atctttgtca acatgataag aaatagaagt gattcaaaat cctgacctgc agtgaanatg 360  
ctaacaacta taatggtttc 380

<210> 9557  
<211> 390  
<212> DNA  
<213> Glycine max

<400> 9557

tagacctga atgaaaggtt gagttcttac caagatgaat aacctcttaa ctatccacaa 60  
atagtagata tttatcttga acaaaaccaa gctcctgcaa gaatttcttc acccatagca 120  
actccttgca tgcttcagta atgacaatga attttgcata tghtagtagac aaagctacac 180  
acctttgcag ctccgactgc caagtcacag ctccccctac aaatttaata aaattgctca 240  
aagtggactt catagaatca atgtctccag ccatacttga gtctaagtac ccaccaaag 300  
tatgcttata accacaaaa caaagcctca tatcaacagt accatgaaga tacctcaaaa 360  
tccatttcac aacattccaa tgctctctac 390

<210> 9558

<211> 428

<212> DNA

<213> Glycine max

<400> 9558

tctctctttt cttgattatt atcatttggt ttaagccttg tatttggcta tattattatg 60  
atatttgaac atttagtatt tctttttcta tttgcttagt atgattgaac aattaggaat 120  
tatgttatat gaccatgtgg tttttatata tttgaactat tcatgtttct tgcttcatga 180  
ttggtttgga tttttcaatg aatgtcttgc gtatgattag tcatttgtgt atgttttata 240  
tttgttacgc actttggctt tttgttgatg ccaaaggggg agagaaaata atgattaaat 300  
taagaaactc acataataaa ataacttaat ttcaagtaaa gcttaaactc aaaaacaaag 360  
ggggagaata tggagaatta agtgagtgat cgacaaggaa aaactatgtg tatgtgtttc 420  
ttaatttc 428

<210> 9559

<211> 282

<212> DNA

<213> Glycine max

<400> 9559

gaacgaatga attatgctcg ttgttggaac attcaggccc cgggcgctca tactgttctt 60  
cccacttata attgatctgt ggcgttcttg ccggtggaga gcttaaatga ggcgtctcaa 120  
gagcaactgat ggagcccttg tggaagtaga ggtggtgaaa cttgtgagaa gatgctttag 180

actaagcaat ggagagggtc ttgagccatg gaatgaagtg agtgccatca cgattgggaa 240  
 atttggtgtt attacgggat gatgacccaa cgcttgatt gt 282

<210> 9560  
 <211> 459  
 <212> DNA  
 <213> Glycine max

<400> 9560

tatatacaat ataggatata tattgaattg gtgttatcaa tcacatgtac atattgacta 60  
 ttgtttaaga gaaaggctag aaaaaataa catagttgaa tcaacatcat tatcaattg 120  
 attagaatga taaaaaaacc taacaaatga aatccaagac atcacatgat aattagaaaa 180  
 atacaataac aataaagaat agtaatatata aaaattagat atacataaat aaatattatg 240  
 tacagagaaa aaaaatttca aacaacaaca tttttgttga tccggaaaat accgtaattt 300  
 gtgcctaaat cgagaccaat ctatgatcaa ttgtgattta aaaatcacia ttcttaagaa 360  
 gaataaatta ttctgcattc taaaacatat ttaatgatct agcatgaaaa tacattgcaa 420  
 ccataaataa atattggtag ctatcaacaa taaaagctc 459

<210> 9561  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations 581  
 <400> 9561

tctgtccctg aganaactggt tcccagaaga caactgggag tgaagattgc tgaaaaccct 60  
 agccttgcaa caagtcttag ggaagtagac acggagatgg acaagaaaat ccgcggtatt 120  
 gtgagtagca ttctgaaaga tgcttctgtg cctgatgctg agaaagatgt tccaacatct 180  
 tccaccccaa atgtttctgt gcctgatgtt gagaaagatg ttccaacatc ttccacccca 240  
 aatgtttctg tgcttgatgt caacaaagat gtccaacat ctccgggcc aaatgatgaa 300  
 gtactctctt ccccagcac agagagatca acagaggaag atgatcaagc cgcagaggag 360  
 acccctgcac caagggcacc agaacctgct ccaggtgacc tcattgactt agaagaagtc 420  
 gaatctgatg 430

<210> 9562  
 <211> 448  
 <212> DNA  
 <213> Glycine max

<400> 9562

cttgatggtg tcgagaagaa atcacatggt tgatcatcat taaaaggggg agaattgtgaa 60  
 tgtatgtata catgattttg atgatgtcaa agaagaatct aacaaggctg cttcaaatga 120  
 taagcatttg cttcaagaat aattcaagat tgcttcaaca aacaaagcct tgtttcaaga 180  
 ttactaaag accaagtctt gccttaaaac aatgtgcttt caagacatgc aaggctctgg 240  
 taatcgatta ccaggaagtg ttatcgatta ccagaagaca gggttgagaa atagctgttg 300  
 aaaaagggtt tgaatttgaa ttttcaacat gtaatcgatt accatatgtc tgtgatcgat 360  
 taccagcaac gaaacttttg aaattcaaat tcaaaagtcg taacccttca aattataact 420  
 gtgtaatcga ttacacaaac attgttat 448

<210> 9563  
 <211> 298  
 <212> DNA  
 <213> Glycine max

<400> 9563

tgtgctcatg ccacaattgt tagtcgcggc tataccagac atcttgccaa acaaagtcag 60  
 ggtgatgata actgcgctga gctttttctt ccattgtata tgtagcaaaa ctattgatcc 120  
 agttatgtct gatgaaatgg aaaatgaggc cgcaattata ctatgccaat tggagatgta 180  
 ttttccccc actttctttg acatcatgat tcaactgaat gtgcatttag tctgagaaat 240  
 ccaatggtgt ggtcctgttt atctaccgag gatgtaccg gttgagcgat acatgaag 298

<210> 9564  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<400> 9564

gcttatcaaa tcagacaatg gatatgagtt tattacgaaa cagttctatg atgatattgg 60  
 cattacacat caatgttctt gtgttgaaac tccaacaga atgggattgt tgaatgaaaa 120  
 catcaaatat ctattaaatg tcaattgac cttgttattt cagtctaatt taccatctat 180

ttttgggtctt atgccttgat tcattatggt ttccttggtta attgtaggcc tacttttttc 240  
 cttggtaatc aaactcctta tgaaaaacta tatgaaattg tatatgatat tgagtcttta 300  
 aggggtatct ggtgtctatg ttttctagta ctttgacagc taacagaaaag aaccttgacc 360  
 caagagctgt tacttcagtc tttttg 386

<210> 9565  
 <211> 446  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9565

tatctaactg attcacaata cttgtgatcg attaccctag attctaaaca ttttaatttt 60  
 caaaatttaa aatgaagagt cacatctgtt gatgtgtaat cgattacacc ttaatggtaa 120  
 tgcattaccg gtgactaatt ttgaaaaata aatttccaaa agtcacaatt cttcaagtga 180  
 cttgtttctg aaattttttt ttaaaagtca caacttttta agtgactagt tttttaaaga 240  
 gtcacaattt ttgaagggtg actagtttta aaaaaatttc caagagtcac aaactttaac 300  
 ttgagtcac aagagattat aaacatgtga ccatggcatg aatntcagaa catcatctct 360  
 caacatcttt caaacaatct tttcaacgct ttctacagaa ctttctaaat catttctcaa 420  
 caatctttct acacagttta taacat 446

<210> 9566  
 <211> 383  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9566

agcttatgct gcaaacatct acaatagacc tcctcaacct cagcagcaaa attagccaca 60  
 atagaacaat tatgacctct ccagcaacag gtacaatccc ggggtggagga atcatcccaa 120  
 ccttagatgg ttgaatcctt cacaacagca gcaacaacaa caacaacctt attttcagaa 180  
 tgctgctggc ccaagcagac catacgttcc tccaccaatc cagcagcaac aacaataaca 240  
 gcaacagccc cagaaataac aaacagttag ggctcctccg caaccttccc ttgaagaact 300  
 tgtgaggcaa atgactatgc aaaacatgca gtttcaacaa gagaccatag cctncattca 360

gagcttaact aatcaaatgg gac

383

<210> 9567

<211> 488

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9567

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gatctttcca atatcttcta gcatcaagtc aagacaatgt gcagcacatg gaggccaaaa 120  
tatttttggc ctctgtgactt gtaaaatfff acctaagaag atcaaaatca ataaacttgt 180  
atgagtagtg taacaattaa aagttataac tataaaaaaa aaacttcatt aagcatgatt 240  
gaattctcat ccgccaacac ataattactt ccattgtccg tcaccacttg aataacattc 300  
ttttctcaa tctctcaac aaagctatcc ataagctcaa agatcttccg accagctctc 360  
atgtattcaa aagcatccac actcctcaca aactgtgttc ccaatgaaca atctaccaca 420  
aagttaatca aagttttata ctctctatct gttcaacat ctgacataag ccccttgtgt 480  
attccaac 488

<210> 9568

<211> 377

<212> DNA

<213> Glycine max

<400> 9568

agcttgaaac tgtcatgtat caatttcctt tgaaattgta tcaaagacaa gtattaagat 60  
taaaattaaa tcctaacatt aatccccaca tgaacattat ccttccttaa aatggagaaa 120  
acaatttgaa tccctcaata tgatatgaca aatgaaaact cctgatacat atttcatagc 180  
agaacaatct ccacaaactc attctttaac attcgaattg gtgcacctgt ttgagaagca 240  
agtaatccca aagcaacatc cgatttctta ctgtgataag caagaccaac ctcttttccc 300  
tctgtatcca tgtcatgcaa caaaaaattc atatctggaa cataaccaac ttccttagtt 360  
cttcttacga tttcatc 377

<210> 9569

<211> 451  
<212> DNA  
<213> Glycine max

<400> 9569

ctcagcttgc tttcaatctc ccccttggtg atgatgacaa cccttatatc aagaaacaca 60  
tacacatact ttttcctagt cgattattca cttaattctc catattctcc ccccttggtt 120  
ttgagtttaa gcttcacttt aaattaagtt atttaattat atgagttctt gatttaaatc 180  
ctattttctc tccccctttg gcatcaacaa aaagccaaag tgcataagaa atataaaaca 240  
tacataaatg attataatat cactagacat atatcatcaa aataattaag tttaaaactc 300  
ataacaatta agagtaagta aatataatca tgttcagtta tactaatcaa atattaaaag 360  
aaataactag tattcaaatg tcataaaaaat ataaatcatt tgggtaagtc actagcatct 420  
tgcagtccta attctcttct aatggcgtag a 451

<210> 9570  
<211> 411  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9570

tatcctgtca tgttcattag ttcaaaaatt atccagaaga tggagctagg ttaggaacag 60  
gtacgattgg atagagaaaa ttccacctt tcaggcttcc accttgctac tacgcaattg 120  
ttttgtccca ccaccaccac taccacaatt gttgctacga tgtaccagca ttgttgccac 180  
cacaaccatt gctactgttg ccatcactac tattgtgtgt gccatcacta gcatgtatca 240  
tgattgcttc tataattggt acctctactg acacaaccac tatcactaca ttgtccagga 300  
tccgatggtc tcaaaaatga taattgcttc cagtcaactt gngtgttcag aggagataat 360  
caccatcgct gctgttcttt ccgtccaggt gaatcttttg ctgtagtcat g 411

<210> 9571  
<211> 355  
<212> DNA  
<213> Glycine max

<400> 9571

tcttacaag catacggctt tctggatgta gatgatgata tctatacaga tggatcttat 60



atatctatat atctatagat agatatatag atatagatat atagatatag atcatacaat 120  
 gaagtaccgc acgagtgggt atataggaat ccaaactctgc cgaatcactc atgttatgat 180  
 cttctacatc ctaagtcttc ccgttccttc atctggctta tgttcttcat gtagcattca 240  
 cactgaatga ctctatgaaa ttacgtcgct acttcacat ggtacgggta acgtatgaga 300  
 catctctatt tttcccgggg ggaatactta gaattaccac agcttagctt tcaat 355

<210> 9572  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<400> 9572  
 cttatgtagg gggtaaattc gaattaagta tgatgggaaa gtttaattta ttccttggac 60  
 ttcaaatcaa gcaagaatat gaaggcatat acatacatca aaccaagtac ttgaaagaac 120  
 ttttgaagaa gtttaagatg gatgatgcaa agcatatgaa aatgcctatg catccaacca 180  
 ctatactttg actagatgaa gaatcaaata atgttgaaga aaagacacat agaggaataa 240  
 tacaatctct tttgtatgta actgcatcca gacttgacat tatgttcagc gtatgtcttt 300  
 gtgcacaatt cctaaaggaa ccaaagggaag ttcactatc tgttgtcatg catatatcga 360  
 tgactaatag gaactccgaa ccttgggtta tgctataaga gagaaaagaa atac 414

<210> 9573  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<400> 9573  
 agctttggag aaccaagcca atcattatgc tagacgaaat atagatggga atagaggtaa 60  
 caatggcggg aatgacggac cgaggcagaa ccgggttgag ggagtaaagc tcaatgttcc 120  
 tcccttcaaa ggtagaagtg atccagatgc ctacctggac tgggaaatga agactgagca 180  
 cgtattttgcc tgcaatgact aactgatgc gcagaaagtc aagctagcag cagctgaatt 240  
 ctccgactat gcccttggtt ggtggcataa ataccaaaga gaaatgttga gagaggaacg 300  
 gcgagaggta gatacatgga ctgagatgaa aagggtgatg agaaaaaggt atgtgcccac 360  
 tagctataac agaaccat 378

<210> 9574  
 <211> 462  
 <212> DNA  
 <213> Glycine max

<400> 9574

tatttagatc agattctatc attttaaatt tattgaacgt gtcaccatac tcttccttgt 60  
 tccatctctt caccctcatt tttagattct taaatttttc cttgagcaca aaacctcccc 120  
 atcctggttg caattgagag ttccagcatt ggtggacaac tttcttaaag gatacatccg 180  
 agagccagca gtccaaaact ataaaagggt gagggcccca atcaacaacc ttgatcgaa 240  
 gaagaatagg acaatgatct gaaaagttcc tggcaagtgt catttggaca cttgcaggcc 300  
 atctattcag ccattccggg gaaaccaagc acctgtccag cctactcta gaagcccat 360  
 taggtatgat ccatgtaaac ttctgcca gccaaaggaac ctcaagcaac tccagttcgt 420  
 gaatcctatt attgaatttc aatatactgc tgtcactaat ac 462

<210> 9575  
 <211> 314  
 <212> DNA  
 <213> Glycine max

<400> 9575

gcaagcttcc acttattagt gcacagcttt ttgatgcac cttcctagga agggaccaat 60  
 cactaaaacc atgagcaaga ggctccaaga agattgggct agagcttctg aaaaaagccc 120  
 taaggttctc atgaacctta aggtagattt ctgagcccat gggccaaggt tgggtccaat 180  
 tatctttgta catattaaac taggatgtca ttatatttgg tccttgata tagggctcca 240  
 tattgtaggg aggggtaccct agaaatatag gatatttcag cccttgatt ttttgggcac 300  
 ctagactagt tttt 314

<210> 9576  
 <211> 287  
 <212> DNA  
 <213> Glycine max

<400> 9576

atgcaatcct ccctaggaag ggaccaatca ctagaacct gagcaagagg ctccaagaag 60

attgggctat agctgctgaa gaaggcccta cggttctcat gaaccttaag gtagatttct 120  
gagcccatgg gccaaaggctg ggtccaatta tctttgtaca tattagacta ggatgtcatt 180  
atatttggtc cttgtatata gggctccata ttgtacgtag ggtaccctac acatatagga 240  
tttttcagcc cttgtatttt ttgggcacct agactagttt ttgtatt 287

<210> 9577  
<211> 367  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9577

agctttacag cagatgcccc ttactccat gttcttgaag gatatgttaa caaggaaaca 60  
taagtatatt caccaggaaa aaattgtagt ggaaggaaat tgtagtggtg tgattcaaaa 120  
gatccttcca cccaagcata aagaccttgg gagtgttaact attccttggt caattagaga 180  
agtcactgtg ggaaaagctc tgattgactt gggagccagc attaatataa tgcattctc 240  
catgtgcaga aggttgggag agttggagac catgcccact aagatgactn tacaactggt 300  
tgaccgtcc attaccagac catatggagt aattaaagat gtgctgggtc gagtgaaca 360  
ttttatc 367

<210> 9578  
<211> 427  
<212> DNA  
<213> Glycine max

<400> 9578

tcagctcctt caactgcaca aggtctctaa tgtttgaaga gtatccttgt ggaaccttca 60  
cccacgaag acactgacaa aaacttatct tctccttttt ggacaaggta tggcaagcta 120  
ggggcaagta aattttcttc ccattagacc ttggatgcaa ctgcatcgt atgcccatat 180  
catctagatc ttgacaggta ttgaagccat ccttcattct gccttgaatg ttaatgagag 240  
tcccaatcac actattacaa acattttctt gcacatgat aacatcaata caatgtctaa 300  
catcaagatc agatcagttc gaaagatcaa agaatatgga cctcttcttc catatgcaac 360  
tcttactctt atccttcttt tgggtcttcc caaatacatt attcaggtgt tcaaccgct 420

<210> 9579  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<400> 9579

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 tycagtgggtg atggcatgga gctctcggat atatgtggag gcgtgatgta accgggggca 120  
 gaaaagcttg ctaaaataag ccaagggatg gccctgttgc atgagaacaa ccccatctc 180  
 gatacctgaa gcatcagctc taagtgtgaa tggttatgaa aaatcacgga gggccaagac 240  
 gggggcctgg gtcattggctt gcttgagtcc ctcgaaagcc gattgagcac cctcgtecca 300  
 atggaagtta tccttttcta acagtgtggt taaaggggag gcaatggaag catagcctct 360  
 tgataacttc cgataaaacc ctgttagacc caaaaatcca cgtagagaat ggggtattg 418

<210> 9580  
 <211> 212  
 <212> DNA  
 <213> Glycine max

<400> 9580

aatgcagagg ttcgaacatc cgatgccatg gtttgggttc tctatctctc ggagatagac 60  
 atgtggaaga gtacttgatg gcttcgggtg cacagaagta acaattgtcc cttgggtcagc 120  
 tggccttcaa tggaactcta cgctctacat gaggaacctt tcattgagac accttgacgt 180  
 gcacatcgaa tacatcatcc acacaactga ct 212

<210> 9581  
 <211> 471  
 <212> DNA  
 <213> Glycine max

<400> 9581

gggttacctc cttcttcaat acatcaagaa tcaccgggtt aagtcttctc tgtggcagcc 60  
 ttactagttt agcccaatct tctaaattta ttgatgcat acatgtggat gggctaatac 120  
 caggaatgtc cgccagggtc cagcctatag ccttcttatg cttcttgaga atagataaca 180

gcttctcctc ttgctcatca gcaagggagg cagatataat tactggaaaa attttgcctat 240  
catccaagta agcatatctt aaatttgatg gtagaggctt caattctggt gtgggcggct 300  
agatagtggg agaaagagat ggtttctcag cctgtacctc ataaagaaat tcagagggtat 360  
gtgtacttcc tgaacatggg ttagtcttat ctgactctag aaaatcaatc tcaagggtta 420  
aaacatcact aggaatgtaa tcaatataaa ttccagattc actctcagca t 471

<210> 9582  
<211> 475  
<212> DNA  
<213> Glycine max

<400> 9582

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tgatcctttg atcaaatata ttatatattt aacaaactaa cttatcatat gtataacgta 120  
tgcacttata ccttatcaaa atcaaaataa accattaact cacattatta attttcaacc 180  
ctgtccatgt gcagatcaat ttaacttatt ttctttaaat aataattcat cttttagttt 240  
aattcttata tatttttaag gttctcactg ctatatgtta tttttaaaat aatcattaaa 300  
aatcaataa ttgtcaatta tatgaaaatt cataattaac ataataacgt tataacctaa 360  
ttaaatcgct tatttctatt aatcatcttg aatatctttt tttataataa ctaaacaatt 420  
ccatgtcgat acgagttatt cgatttactc tcacttcttt tatttatctt atact 475

<210> 9583  
<211> 405  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9583

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aaactttaaa cattatggca tataagatga tttttgaata tcgttaatgg aatacaatct 120  
tacttaaaat ggataaaatt attatagaag atatttataa attaataggg tattgggatt 180  
catgactaac tatcagtatt atttaggacg tatttcactc tatggagtga aaaaaattat 240  
gtaaatgag aagtaattat ggatgtgtct attattaata taaataaaat atcctataaa 300  
cagaatccaa ttaaattaaa aaaaataaaa taaatgcacc tttcttttca ctctgtacgc 360

gcttctcacc ttntacagca aaatagaaaa tctaaaatta attta

405

<210> 9584  
<211> 431  
<212> DNA  
<213> Glycine max

<400> 9584

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caaaggagca tacttgtttt tgccatcgta tgttatgaga gtacatggag caaagcagca 120  
acgtgaagca gttaagaggg ctcccaagag tcaacttgat cctgtttttg aggttgggat 180  
attcttttct aaaatgtatg tgcatttgta agtctgtctg tggctctgcag ttaatagttg 240  
ttgaaattaa ttctgggtatt attgtgtaac taggccctta atacccttgg caataccaaa 300  
tygagggttaa acaaagggt gctctgtgtg atagatcaca tatgggctaa tggaggacgc 360  
cttgctgatt tgggtgatcg tgaaatgtga gtactaaaca aactttttgc taaatctatc 420  
tgttgactcc t 431

<210> 9585  
<211> 376  
<212> DNA  
<213> Glycine max

<400> 9585

agcttgttgc actagcataa acaaggagtt gagcaactgc ttctggtctt ggggtgcatg 60  
gcaatccttt ggcaggaaaa attctaaaac aaaatcagcg gaggcactcc ggagtggaaat 120  
gcccagagca gcatgcaagc caaacatgtt agcatgatgt gccagaggat actccgcctt 180  
gctgaaggaa gtaatgtcat ttgcaaaaca aggtttggtg gttgtgaaag ctgtcccaac 240  
tactccttgc cccccaaaaa ggtggcactc agagcaggct tccaggaaac ccattagctc 300  
tacatccgcc acaaaaactag cagcatacac agtcgacaca taattcatct catogtttga 360  
atgccacat ccactc 376

<210> 9586  
<211> 359  
<212> DNA  
<213> Glycine max

<400> 9586

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ccctagcctt gcaacaagtc ctagggaagt agacacggag atggacaaga aaatccgcag 120  
tattgtgagt agcattttga aagacgcctc tgttcttgat gctgagaaag atgttccaac 180  
atcctccacc ccagatgttg ctgtccctga agctgatgaa gatgtcccaa catcttccac 240  
cccgaatgtt tctgtgcttg atgttgagaa agatgttcca acatcttccg gcccaaatgc 300  
tgaagtactc tcttccccca gcaaagagag atcaacagag gaagatgac aagccacag 359

<210> 9587

<211> 439

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9587

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cttgatatcg actagttaac cctagtgcac aagcgacac aggatgtgta caagtcacgg 180  
tgtacatgat agctcctact acactagcat atggtactct actcatgcgt tctctttctt 240  
caggagttat tgaacaattc tccctactaa gagtaattcc aacacctata ggcaaacagc 300  
ctcgttttga attattcatg ttatatctct ntaagatagt atcaatgtac atagattggg 360  
agagtccaag caaccttnta gatttatctc tataaatctt tatacctaga atatagactg 420  
tttctccaat ctttcatgg 439

<210> 9588

<211> 450

<212> DNA

<213> Glycine max

<400> 9588

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actttccccg tgatatccta ttgtcaatat tctggaagtg ttatacatat ttaagaggt 120  
caaagattaa acttgtcaaa gactcaaaaa taaaataaaa gtccattcaa agaaataaaa 180

tgatgtttta gttatgcata ctaatttttt attattaata ttcaaattag atatttttta 240  
 ccacaagtgc ctttttatat ttttcatttt aattacttac atatcagtgc atcaccatgc 300  
 cgcgtttcat gttatggaaa aaataatttt taaacaatct tgagttgata aatgatgtaa 360  
 tataataaga aaaaagatta aaaaagatta ttaactgaat gcttattgtt ttataaaaat 420  
 ataatcactc ttatatgttt taatccttca 450

<210> 9589  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9589

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 acttgtatTT tgtctctttt atagatgact ttacaaagaa aatttgggtt tacctgttac 120  
 aaagaaagag tgaagtattt gtaacattta aatcattcaa gttactagtt gaaaagcagt 180  
 ctgattgttc aattaagatg cttagaacta atgggtggagg aaagtacact tcacttgaat 240  
 ttgataatTT ttgcaaggaa gaaggaataa ttcattgatg aatggctcca tacactcctc 300  
 aacacaatgg aactgctggg agaaggaana naacaatgct aaatatgggt agatgcatgc 360  
 tgagagagaa g 371

<210> 9590  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9590

ntcgagagat tcaaatggtc ataactttta actcggacgt ctgattggagg cgcattttat 60  
 atcaagacgc tcgaaattga acaatggaac ctctgtagca atttaaatgg tcataacttt 120  
 tcactcggag gtccgatcca cgcgcataat atatcgagac gctcgaaatt gaacaatgga 180  
 agctcttgag caattcaaat ggtcataact tttcactcgg aggtccgatt caggcgcata 240  
 atatatcgag acgctcgaaa ttgaacaatg gaagctctcg agcaattcaa atggtcataa 300  
 cttttcactc cgaggtccga ttgaggcgca ttatatatcg agacgctcga aattgaataa 360



tggaagctct tgagcaattt aaatggatcat aacttttcac tccga

405

<210> 9591  
<211> 437  
<212> DNA  
<213> Glycine max

<400> 9591

tctaaacttt gtacaagaat gaagctctga taccacttga tagacaagtg gcctcagata 60  
tcttaagaag gggggggttg aattaagata ttccaaactt ttctcctaata taaaaatcta 120  
tcttactttt tacttaagtt atgaattccc ttaatgacaa tcttcttaaa tattaattca 180  
aatgaagcaa cttgaatatg aatataacgc aataataaat aaaggagatt aagggaagag 240  
aaaatgcaa ctcagtttta tactgggttcg gccacaccct tgtgcctacg tccagtcctc 300  
aagcaaccgc cttgagagtt cactaactt gtaaattcct tttaacagtt ctaaacacac 360  
aaggacaacc cttcctttgt gtttagagat tctttacaac aagagactca cagtctctta 420  
atcccttaga gaatgag 437

<210> 9592  
<211> 380  
<212> DNA  
<213> Glycine max

<400> 9592

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cacagtggcc aaggatgcgt gggagatcct gaaaaccact catgaaggaa cctccaaggt 120  
aaagatgtcc agactacaac tattgggtac aaagttcgaa aatctgaaga tgaaggagga 180  
agagtgtatt catgacttcc acatgaacat tcttgaaatt gccaatgctt gcactgcctt 240  
gggagagaag atgacagatg aaaagctggg gagaagatc ctcagatcct tgccctaagag 300  
atttgacatg aaagtcactg caatagagga ggccaagac atttgcaaca tgagagtaga 360  
tgaactcatt ggttccttc 380

<210> 9593  
<211> 344  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9593

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gtttggtttc ctaccattga atagttcata tggagttttc tttaaaattg gtattattaa 120  
agccctattc atgatatagc atgcagtatt agcggcttca gcccaaaaat attttggaag 180  
aggagtatca ttttaataagg atctagcaat ttcttctaaa gacctatttt tcctttcaac 240  
aactccattt tgttgagggg ttctaggtgc agaaaagtta tgttcaatgt catgcttatt 300  
acaaaataaa tcaaattctt tattttcaaa ctcaccnca tgat 344

<210> 9594  
<211> 455  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9594

ntccaagcca tataaattat gtggaattta aggaagatta ttagtagaaa agatgtacca 60  
tatggagctg atgcatcata cccaattagg gtatattgac tcattagtag tcccaggaga 120  
aatatgtagg gtttgccttt gattccatca tcgttttttag tattgaaatg agtgaaatca 180  
aacttgagac cagctctttc cgttgcaaca attgaaatga gtatgataag aacaaaaaca 240  
cctaaaagtt tcccattca aattagttgc ataaacaatt gctgatttcg atatttgttt 300  
gtaattgaaa tttacccttt gtatgttctt ttatgtcatg aatgtaattt tctatataaa 360  
caattgttat tcatgtgag tgaaccttag attcccgttt gagattgaat gcaatgattc 420  
ttgcggatag tttgcattag tcattgtatt tagtc 455

<210> 9595  
<211> 457  
<212> DNA  
<213> Glycine max

<400> 9595

ttgcatcttt ttcatggcaa gatttgccaa gttagcttca tctctttcct tggctgcac 60  
aactggtgcc atggatgata tcagctcaat aagtacaacc ccaaagctat acacatcact 120  
cttgccttg agcctgtaca attggaaata ttgagggtca agatacccta gagacccttg 180

tggagctgtg gagacatggc ttacatcatt ggggagcaat cttgaaaacc caaaacctgg 240  
 taccttaatc gaaacactaa tgtcaagtaa aatgttgttg gttttgacat cacggtagat 300  
 gatattagaa gtatggagat aaagaacaaa actaatgatt tgtgctccaa aactaacaaa 360  
 tctccgccaa ttgtttctac actcctacta tttatgcaaa tattttatgg aaaagcatag 420  
 ataataaata gtgacattaa ccatacatga gaagcat 457

<210> 9596  
 <211> 345  
 <212> DNA  
 <213> Glycine max

<400> 9596

gagcttctaa actttatata agaataaagc tctgatacca cttgttagac aagtggcctc 60  
 agatatctta aaaagggggg ggggtgaatt aagatatctc gaactatttc cctaattaa 120  
 aaatctattt cactttttac tcaaggtagt aattccctta atgacaatct tcttaaatat 180  
 taattcaaat gaaacaattt gaatatgaat ataaagaaat cataaactaa ggagattaag 240  
 ggaagagaaa atgcaaacctc agttgtatac tgggtcggtc acacccttgt gctacgtac 300  
 agtccccaag caaccgcctt gagagtcca ctatcttgga tattc 345

<210> 9597  
 <211> 457  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9597

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 gcacgagctt ttcaagttgt atgggactaa gctgcgtatg agcactgctt accatctca 120  
 aagtgatgga caaactaaa gtcttgattg agttttggaa caatatttgt ggggtttagt 180  
 gcatcataag ccataccta gggataagtt tttgtatctt gctgaatggt gctacaaccc 240  
 cactactcat ttagccacta atttaacctc gtatgaaatt gtttatggta agcctctcc 300  
 tagtatttcc aattatcaag ctggaacctt tgccgtggaa gcaattgaat tttttctgac 360  
 tttgcgccaa gaaaccttcc acctacttat gaagaagctt gaaaggccta ngaacatatg 420  
 aaaaagaatg ttgatactca tcgtcgagat gtcaatt 457

<210> 9598  
 <211> 361  
 <212> DNA  
 <213> Glycine max

<400> 9598

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agcttgtctc aataagtgtg ctcgatttga tcaattgaca ttattggtct ttatcaataa 60
taaaattttc agtaatacca tcaacagatt gcttgagcat caagtgttgt aagaataaaa 120
tgggtataata aacatacttg ctgagtcctt gagctgcact ctatataata tgtagctcct 180
accagtttac gcaattcttc accctgatta tggacaaaac ccaaaagttt caataaacac 240
tgcttattga actcttttagg tggctaataa agtaaggcat agtacttget cagaagtcac 300
aagcgccaga ccaggattat cagtcaaata aaaataaagt tatttttatg atatgaattt 360
a                                                                 361
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<210> 9599  
 <211> 354  
 <212> DNA  
 <213> Glycine max

<400> 9599

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ttgatgaatg agagtcttgg aagacacaac tcaaagttca acttctctcc ctttttcttc 120
ctgtaatttc gtgctccctc ctctctttct tttagcagat gctcaccccc cctctaaaa 180
tttaattgga gtgggcttct cccaattcaa tttaatttat tttcaaccac acacatcaaa 240
tattcactta atgcgtgcc aattagaaaa ctaccctaa tacaaaaaac tagtctaggt 300
gcctaaaaat acaagagatg aaaaatctta catttctagg gtaccttaac tata 354
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<210> 9600  
 <211> 343  
 <212> DNA  
 <213> Glycine max

<400> 9600

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aaaaatttat tgcggttgg attggctcag agattcaaca ttcaatttcg agcgtctcaa 120
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tatattacgg gactcattca gacatccgag taaaaagtta ttgtcgtttg aattagctta 180  
gagcttcaac aatcaatttc gagcgtctcg atatatcacg ggactcaatc agacatccga 240  
gtaaaaagtt attgtcgttt gaattggctc agagcttcca cattcaattt cgagcgtctc 300  
gatatattac gggcctcaat cagacatccg agtaaaaaag tat 343

<210> 9601  
<211> 376  
<212> DNA  
<213> Glycine max

<400> 9601

agcttgttgg agttcactga gagcttcttt aggtttatga gctcaaaccc tattgtgtct 60  
ggcagcttgc tcagcttgtt gaagtttgca ttcagctctt cttaaagctct gctaggtcaa 120  
aattcatcac agcatgcaac atgcatgcat gttaagataa tgaaccaagt aataatcaac 180  
atgaataaat tctgatacac acaatcacia acacaattaa tcaccctat attaattaca 240  
atcaattaat cttatttgtt tcttgacgc ttctgatcat gtcatgtcat ttgtatttgc 300  
aaggaataac aatgttgatt ttgtgatgta agagctagaa atgctcaatt aatgcatggc 360  
atgttgaat tagaat 376

<210> 9602  
<211> 354  
<212> DNA  
<213> Glycine max

<400> 9602

agcttccact tattagtgca cagctcctga tgcaatcctc cctaggaagg gaccaatcac 60  
tagaaccatg agcaagaggc tccaagaaga ttgggctaga gctgctgaag aaagcctat 120  
ggttctcatg aaccttaggg tagatttctg agcccatggg ccaagggttg gtccaattat 180  
ctttgtacat attagactag gatgtcatta tatttgggtc ttgtatatag ggctccatat 240  
tgtaggtagg gtaccctaga aatataggat ttttcagccc ttgtattttt tgggcaccta 300  
gactagtttt tgtattaggg gtagttttgt aatttcacat gcactaagtg gata 354

<210> 9603  
<211> 364

<212> DNA  
<213> Glycine max

<400> 9603

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gcatttcagg actgcagtac ttcaagtcaa gttgtttttt gctcaccttt tcacgaagaa 120  
agtgaaatct cgtctctatg tgttttgatc ttccgtgtac tattggattc atggccaagc 180  
tgatactgga attgctgtcc acatacaatt cgactggcct ctaaatttct attttctatt 240  
cttccagtaa agagtctagc catagtgtt ggcatgcagc atagcatgct gcaatgtact 300  
caacctcgca agaagataat gctactacat gttggttctt tgaacaccag cttattggtg 360  
cacc 364

<210> 9604  
<211> 430  
<212> DNA  
<213> Glycine max

<400> 9604

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gatatgcatg tatgtaaaca aaaaaatact tcacaaaata tatatatatg tatgtttagg 120  
tagtgaaaat accttagata tgcattgtatg taaacaaaaa aatacttcac aaaatatata 180  
tatgtatgtt taggttagta aaatacctta gatatgcatg tatgtaaaca aaaaaatact 240  
tcacaaaata tatatatgta tgttttaggta gtgaaaatac cttagatatg catgtatgta 300  
aacaaaaaat atacttcaca aaatatatat atatgtatct ttaagtagga agatacctta 360  
tatatgcatg tatgtaaaca caaaaaatac ttcacaaaat atatatatat atatatatat 420  
atatatatat 430

<210> 9605  
<211> 390  
<212> DNA  
<213> Glycine max

<400> 9605

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agtaatccta aaccattatc tttgaaatac ccctaaacca taactagcaa agtaacccta 120

aagtctaatt tgtcaaataa ccataaatac ccctaaacca taactagcaa agtaacccta 180  
aagtctaatt tgtcaaataa ccataaaccc taattagtta agtaacacaa aaccctaatt 240  
agtcaagtac acataaatct gaaatagtca aacacacata aaccccaatt tctcaagtaa 300  
ccctaaacat ctaattgttc aaataccctt aaatcctact tagtcaagta acctaattag 360  
tcaagtaccc ctaaacccta tagtcaaata 390

<210> 9606  
<211> 416  
<212> DNA  
<213> Glycine max

<400> 9606  
tgtggaaaca aaaaagtgcg acacatttga tatagtttat aggccttctga agttggcttt 60  
agtccttgccg gtagcagctg caagcgtgga atatgttttt ttagctatga agtttgtaa 120  
gagtatctat gtaacaaaaa aaatgattaa tgggttaaatg attctcttgt aacttttata 180  
gaaagagatg ttctttgaac aatcaacaat gatgtgattt tagctcattt ttaaaaaatg 240  
ggtaataaac gatttttatt gtaaatatc atcattaaac aacattattt cttattttta 300  
atatatttta gtctataatt tcttttatat ttatttcaca ctgatattta tttattgtta 360  
gattcgtccc tgcttgctg ccatattcaa attaaagctg tttaaagatg agaatt 416

<210> 9607  
<211> 435  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9607

taaaattcat tatggatgca tacactaaga gcattctaatt ggcttctaatt ctagcaacta 60  
gagcatatgt ttcttcataa tctatacctt cttcttgatt atatcctttt gcaactaatc 120  
tagccttatt tctaattgatt atgccatggt catctaactt attcccaaat acccattttg 180  
ttcctatgat gggatagttt ttaggtttct caacaagttc ccacacattg tttctttcaa 240  
attgatttag ttcttcttgc atagcaatta tccaattatc atctattatg gcttctttta 300  
tatttttagg ttcaatcata gatacaaaag ccatattatt gcataattct ttaagagaat 360

gtctagttgt taccctttt gagatatcac caataatggt gtcgacggga tgatctnttg 420  
aggctttcca ttctt 435

<210> 9608  
<211> 401  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9608

tgtgttecta caaatgctga agaacaaccc atttagtggt gctgctcatg aagatcctat 60  
acagcacctg agtgggactg gttgtactca ctacctgaga acaacattac tacatggaac 120  
cagtgcataa gtgccttctt aaggatatat ttttctctca tgaagatgga tcagtacatc 180  
aaggacattg gaaacttcgt gcagaaggaa caagagactt tacttgaagc cttggaaagg 240  
ctgcaagaga taattagaag tttctcacat catggctttt cacctcaaag gctagtccac 300  
attttctatg gtggagtgtc ctacacacat tggacaagtt tggatgctac ttgtgagggt 360  
aatctcattt tanaaccctt tactaatgac ctcaagtgtg g 401

<210> 9609  
<211> 432  
<212> DNA  
<213> Glycine max

<400> 9609

tatcaaactc tacaatttat gcacactgat aagaatgtca tatttttgca tttaatcgt 60  
agaggagtta tttcgtataa aaataataac aaaatattta taaataatat atcatttaaa 120  
taattcaata atataataaa gtaaaatagt aaataataaa tttcacaata gttaaataat 180  
caattttaat aatacatcac acttttagat aataacttac cgatattata gtggtagtat 240  
gttattagag aataatggtt tgatgttatt agatgtgata attttttatt tgggaacaac 300  
acattaaatt gaagtatggt gaatattaga tagacaaaaa acaatccaaa atgattttatc 360  
ttttagtcta attatttcta acttgctgac tagttgactc gatagtaaac tcgagagtct 420  
acttaagtta ct 432

<210> 9610  
<211> 361



<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 9610  
  
 tcagaaagaa attntggcac tacagactga gaaagagttt gtaaggagct tgtatgaaaa 60  
 ttccatgaa aagcactggg aaattgaaga ccagattaca caaatgcaga aaagggtttg 120  
 cagcttgcaa gatgagtttg gaattaatac attcatagaa gataacgatg cagcagctct 180  
 gatggctgca acagctctga agtcatgcaa agagaccctg gctaagttgc aagaggcaca 240  
 ggcacaaatc tctgaagagg ctaaagaatc ataccaaatg gttaaggaag ctcacagcaa 300  
 gtttgaaacc cttagagacc tattcatttc taaacataag agtcacaaag accaagtaac 360  
 a 361

<210> 9611  
 <211> 416  
 <212> DNA  
 <213> Glycine max  
  
 <400> 9611  
  
 tggaatcaaa taaaaaacca caattagtct catattgtaa aaattgttca aatcgtgtct 60  
 caatagaatt aattgattga tctaatatgt ataaaaata ctcattatga aaagattctt 120  
 caggatgaatg tgtgatctca ttactaatat tttttttatc aaaatgaggc tgtttatgaa 180  
 ttttacgttt ttcatgaaat tttggctcta tatccatttc gatagtcatt ttttctgtgg 240  
 attctaaagc caatgcaaac ccgtttttcc tataatgttt taaataagtg ataacacctt 300  
 ttaaatgata tatagcaaca tctatatgca tatcttttga ttgtagaatc ttgctaacag 360  
 aattgcagc aaacacaata tcataccaaa tattattcct aataaatatc aaaatc 416

<210> 9612  
 <211> 422  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 9612  
  
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 caacagtcac atctttctat gtggctcttg aatggctatc aaaggcctat atatatgtga 120

cttgagacac gaatttgcta agagatcttt ggatcaaaaa ggtcttatcc tcttaaaaag 180  
 caaaatcggt ttatcctctt acaaattcct tggccaaatt acttgtgatt caataaggaa 240  
 ttatttgagt gctcaaattg ttcaatctat ctctttcaag agagatttct tcttttcttc 300  
 ttcttcattc tgaanaggga ttaatagacc gacggtctct tgttgtgaaa gaattctaaa 360  
 cacaaggaa ggggtgtcct tgtgtgttag aacctgaaaa agaattacac gatagtggaa 420  
 ct 482

<210> 9613  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<400> 9613  
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 caagatgtcc accccaagat accactgcct agtagtaaag gtctccacaa gctttgccac 120  
 aaagaatacc cctgcaagga cataccccctc atgtgggaaa atctctttgc caaccaagta 180  
 atcaacaaag taacttatca tgtacggacc gacatactag acaagagtag tgacaccagc 240  
 aaatacggca ttacaagctg cctccttcca gaacgacttg agaagtgcc aagccaatga 300  
 aggtgtctcg gattggtttt cagccttcaa cctctcccaa ttagaattca aaaccttata 360  
 atttgtcttg gatcggtctt tcgccgcaac aagggggaatg ttcttaagct caag 414

<210> 9614  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9614  
 nttaataatg gtgatgtctt atttatttgt ctttatgtgg atgaccttat ctttaccggc 60  
 aataacccaa atttgtttga agacttcaag gattccatgt ctcatgaatt tgagatgaca 120  
 gatatgggac tcatgtcata ttacttggga atggaaatga agcacatgga gaatggtatc 180  
 tttgtctcac aagaaagcta caaaaagaa gtgttgaaag aatttaatat gcttgattgc 240  
 aatcccgatga acacacctat ggaaggtggc ttgaagttat caaagtttga tgaaggagag 300

aaggtagacc ccacggtctt caagagtcac gtggggagtt tgatgtatct aaccaataca 360  
 agggccgata ttctatatgc ggtgggagtt gtgtgttgct ntatggaggc tcttacctct 420  
 ac 422

<210> 9615  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<400> 9615  
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 ttgtgtgatgg cttcttcccg ttccaagctt caattggagt cttgtctttt acagacttag 120  
 ttggacatct gttgagtatg taaacaacag tgtagactgc ttcagcccag aatatgttag 180  
 gtagtccttt ttccttgage atcgatctag ccatctccat aactgtgcga tttcttctct 240  
 cggacactcc attttgttga ggagaatatg cgactgtaag gtgtctctca atgccttcat 300  
 cctcacaaaa tctttcaaac tcgcgagagg tgtactcctt gctgcgatca cttcttagta 360  
 cttttatccc gttttcactt tgattt 386

<210> 9616  
 <211> 356  
 <212> DNA  
 <213> Glycine max

<400> 9616  
 tccgttggtc aatttcgtgc gtctcaatat gtgatgtgcc tgtgtctgac ctccgtgtga 60  
 aaagctatga ccatttgaat ttctcgagat ctccgtggt taaatttcgg gcgtctccat 120  
 atgtgatatg cttgaatcgg acctccgtgt gaaaagctat gaccatttga atttctcgag 180  
 agattgcggt gtttaatttt gagcgtctcg atatctgata tgcttgaate ggacattcca 240  
 tttaaaagtt atgactattt taatttctcg agaactttct ttgttcaatt tcgagcgtct 300  
 ctatatatga tgctctgaa tcggacttcc gagtgaaaat ttattatcat ttaaat 356

<210> 9617  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<400> 9617

atgaagaagc gttaaagcag gaagtatggg tcaaggctat ggtataagag atacagatga 60  
tcgagaaaaa caacacatgg gagttagtaa atcgteccca tcaaaaagat atcattgggg 120  
ctaagtgggt ctataagaca aagctcaacc ctgatggcac catacagaaa cacaaggcga 180  
ggctagtagc taagggttac tcacagcaat ccagaattga ctacaatgag acatttgac 240  
cagtagctcg tcttgatacc atatgagctc taataactct tgcacacaaa aaaggatgga 300  
gtatccatca actagatgtc aaatccgctt ttcttaacgc cgtacttgaa gaagagatct 360  
atgtggagca gccacaagga ttctgtctg 390

<210> 9618

<211> 429

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9618

ttagttaatt taattctact ttntccaaaa ataataataa tttttttatg ttaaatgata 60  
taagtaaaat atctaaatct ttacattttt cttataatac aaaattctaa aatattatca 120  
tatgatgtct ttagatgata aattattaga aataaattca aatgataaaa atattaaatg 180  
tgttatttca tgtaattnta catttatcaa ctagtttttt ggtaaatctt accaaactct 240  
ttcaactagc ttctgagttt ttttaactcc taactttagt cttataatct cccctttagt 300  
ttgttagctt tcactatct tataagctag gtttatcaaa catagtctca attattatac 360  
tgtctacaca tttatggatt aaattcaaaag ttatgttttc agagattaaa ctgtcaccca 420  
tataacat 429

<210> 9619

<211> 387

<212> DNA

<213> Glycine max

<400> 9619

tgtcactctc tggtaatcga tgaccagaac gctgtaatcg attgccagaa gcccaacatt 60  
tttgaaaagg gatcttcaga tgtgtaatag attaccatga ctttgtgac aattacgaaa 120  
gcttatcaag ttcaaaaata gatcgaaaaa ccttgaatg gattacacaa gacatgttat 180

cgagcactac tggctctgaa tgtaggaaat tcatattcta aatgaagagt cacaactttt 240  
 caagaaagat aactgtgtta tcgagtacac caagattgtc atcgattgct agtgtcaagt 300  
 tatgagaaaa tctggcaaca gtcacatatt ttcattcgat tgttaaatgg tcatcacagg 360  
 cctataaata aatgacttga tcacgaa 387

<210> 9620  
 <211> 409  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9620

tgtgcattca atatcctgat gaggatgttc catatgttct caagactgga ctaatacatt 60  
 tgctgcccaa gtttcatggt cttgtaggtg aagatcctca taagcatctt aaggagtgtc 120  
 atattgtttg ttcacccatg aagcccccg atgtccaaga agatcatata tttctaaagg 180  
 cttttcctca ttctctggag ggagtggcaa aagattggct atactatctt actcccaggt 240  
 ccattttcag ctgggatgac cttaagaggg tgttcttggg gaaattcttc cctgcatcta 300  
 ggaccactgc catcagaaaa gacatttcag gcacatgca acttantgga gaaaacttgt 360  
 atgagtactg ggaaagattc aagaaattgt gtgcaagttt ccttcacca 409

<210> 9621  
 <211> 444  
 <212> DNA  
 <213> Glycine max  
 <400> 9621

tcttattcca tacccaatga tgctctttga ctgagagtta gaatgacatc ttttgactgg 60  
 acagatcacc aattcaagtc ttatagagat ttccttgtat cttagcaaag aagagtgaag 120  
 agttgtcctt attctagatg atacacatat ctttattaaa ggtgacattg tatccactgt 180  
 cacataattt atttatactc aatatgcttc aatcctttta ccagtaaaac attatctata 240  
 gtacgatagg gagaaatgca tactttacct acaccagtta tcaaaccttt cttattccct 300  
 caaaaagtga ccacccctact agacataggg cttagggatt ggaacgcaga cttttcacct 360  
 gtcatgtgtc atgaacaacc actaatcaag taccatgatt ggtgttcttt cttgtctata 420

aaaagatgta caataggaat tatt

444

<210> 9622  
<211> 433  
<212> DNA  
<213> Glycine max

<400> 9622

tggttcttgac tcattcttctc cttgaagtgg catctccaat catctttctt ccattctccat 60  
tttgctctca ttgatcttca agaagcaaag gactccattg atgaagaaca ttcaaggcct 120  
acaagctcca catggagcta cattattttc tctagtaaca caccttaagt atgtttttac 180  
tctctattg accacctcaa ttgcccac cgtttgaggg ttatatgttg aactaaattt 240  
caatttaatt ccagcagatt tgaataattc cctccaaaat tgactcagaa aattttttac 300  
cagataaaaa atgatgggtg ttggaaccc atgtaatttc acaacctccc gaacaaatag 360  
atcaggtatg tcatttgcag tgaaggggtg actaatgggg ataaaaatgag cataacttaag 420  
tcaatctgtc tac 433

<210> 9623  
<211> 430  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9623

taaccatgga acggtatgag ataattaaag atattgtgtc agggaaacttt ggtgtggcaa 60  
agctgggtcaa ggaaaaatgg agtgggtgaat tgtatgtat caagttcatt gagagaggct 120  
tcaagggtcc attttcaaac tccatgtatc ttttctgttg tcatacctta gtcttgtaca 180  
tatgtacttt ggattgtcct ttgttaatgg ggttctattg ggttttgcag attgatgaac 240  
acgtgcaaag agagattata aatcataggt ccttgaagca tcccaatatc attagattta 300  
aagaggtaag gaattggaga catttttggg ttcaatgagt atagtctcaa agtgaatta 360  
tttgccctct cggaagaaaa tcattccctt cctttagcta cttcttacca actntgtgaa 420  
aatatatatg 430

<210> 9624  
<211> 405

<212> DNA  
<213> Glycine max

<400> 9624

tagcttgtgt cacaattcac tgtgacagtc aaagtgtcat tcacttatca aatcaccaaa 60  
tgtaccatga gaggacaaag cacatagatg tgaaactaca ctctatcaga gatgtgattc 120  
aatttgagaa ggtgaagggtg gagaagggtt taacagaaga aaacacgact gatatgttca 180  
caaagtcctt ctctagtgtc aagttcaagc actgcctgga cttgataaat tttgaagatg 240  
cctaaagcaa attggtagaa gtgcagcctt gaatcgcaag atagacactc gttgatttgg 300  
agtcaagggt gagatttgtg gtgtatgact caaaataaaa aatggcacia gtgagaaggc 360  
tttaagaggt gctgtcataa ctgaattcag atataataac tgaat 405

<210> 9625  
<211> 358  
<212> DNA  
<213> Glycine max

<400> 9625

gagcaaattc aaacaacaat aactttttac tcagatgtct gattgctgcc tgtaatatat 60  
ctagacgctc gaaattgaat gttgaagctc tgagccaatc acacgacaat aactttttac 120  
tcggatgatt gattgagctc cgtaataata caagacgctc aaaattgaat gttgaagcta 180  
tgagccaatt caaatgacaa taacttttta ctcggaatgtc tgattgagtc ccgaaatata 240  
tcgagacgct cgaaattgaa tgttgaacct ctgagccaat tcaaacgaca ataacttttt 300  
actcggaatgt ctgattgagt cccgtaatat atcgagactg ctcgaaatga atgttgaa 358

<210> 9626  
<211> 413  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9626

agcttcaaca ttcaaattcg agcgtctcgt tatattatag gactcattca gacatccgag 60  
taaaaagtta ttgacgtttg aatttgcctc gagcttcaac attcaatttc gagcgtgtcg 120  
ctatattacg ggactatata agacatccga gtaaaaagtt attgtcgttt gaatttgctc 180

agagcttcaa cattcaattt cgagcgtctc catatattac gggactcaat cagacatccg 240  
 agtaaaaagt tattgtcgtt tgaatttgct caaagcttca acattcaaat tcgagcgtct 300  
 cgttatatta taggactcag tcagacatcc gaganaaaag ttattgacgt ttgaatttgc 360  
 tcagagcttc aacattcaat ttcgagcgtg tcgctatatt acnggactat atc 413

<210> 9627  
 <211> 239  
 <212> DNA  
 <213> Glycine max

<400> 9627

agcttgaaat tgaacaacgg atgtctctct agaaattcca atgctcataa cttttcacat 60  
 ggatgtccga ttaaagagca taatatatcg agacgctcga aatttaacaa cggaagctct 120  
 cgagaaatgc aaatggtcat aactttttac acggaagtcc gattcgggcg cataatatat 180  
 cacgacgctc gaaattgaac aatggaacct ttcgagaaat tcaaattgaga taacttttc 239

<210> 9628  
 <211> 259  
 <212> DNA  
 <213> Glycine max

<400> 9628

agcttgtgcc tcttcacgtt tggaatatga atgtagcata tagatccaaa gacccttagg 60  
 tgctttgttg atgggtttctt cccgttccaa gcttcaattg gagtcttgtc ttttacagac 120  
 ttagttggac atctattgag tatgtaaata gcagtgtaga ctgcttcagc ccaaaatgtg 180  
 ttaggtagtc ccttctcctt gagcatcgat ctagccattt ccataattgt gcgattcttt 240  
 ctctcgaca ctccatttt 259

<210> 9629  
 <211> 173  
 <212> DNA  
 <213> Glycine max

<400> 9629

caatacccca taaatctaac ctctaagggt tctaagtagt cctaccacaa aatccataga 60  
 agtagtgccc cacttccact ggggtatctc taaaggttgt aacttccccg aaaggttctg 120



atgatctatc ttagccttct gacagactat gcatgcatac acaaactcac taa 173

<210> 9630  
<211> 197  
<212> DNA  
<213> Glycine max

<400> 9630

ttactatgca gataatatcc aagaaaaata ctttcactcg acttagcatc aaatcttctt 60  
aagttatctt tgccttatcc aatacaaac atttacaacc aaagatatga agatgtgaga 120  
tgtttggttt tcttcatttg aacaattcat atggagtctt tttcaaatgg gtcttaatta 180  
agtcctatct aaaatct 197

<210> 9631  
<211> 417  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9631

aactaccata agggaaaaga gcctagtgtg ctttagcgcat gtttagaaac aagccagact 60  
aggcaagtaa agttgtgaga aacaagacaa gattgttgcc aaaggttact cacaatatga 120  
aggtatagac tatacataaa cctttgctca tgttactcgt ctaaggcaat acacattata 180  
ctctcattta cagctcatat aaaaatgaga ctatatcaaa tagacgtaaa aagtgcattc 240  
ctcaatggag caatacaaga agtagtccat gtagaacaac cccatgggtt tgagggtaac 300  
actnttcac accatgtatg taaacttaat aaagctttgt atggacttaa gcaagctctt 360  
agagccttgg atgaatgtat caaatcattt ctttaagcaa tggatttgac agaggaa 417

<210> 9632  
<211> 402  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9632

agcttataga atatataata aaagaacatt gacaattgaa gagtctattc atgtttcctt 60  
tgatgagtct aatgccattc ttccaaggaa ggatttttta gatgatattt cagattcctt 120

agaagataca catattcatg gaaatgactc taaagaaaaa gatgaaggaa gcaatgagga 180  
 ttctcaagat aatggagtta gaggaataa tgaacttcca agagaatgga aagcctcaag 240  
 agatcacccc ctgcacaaca ttattggtga tatatcaaaa ggggtaacaa ctgacattc 300  
 tcttaaagat ttatgcaata atatggcttt tgtatctatg attaaaccta anaatataaa 360  
 agaagccata ataaatgata actggatcat tgtcatgcaa ga 402

<210> 9633  
 <211> 450  
 <212> DNA  
 <213> Glycine max

<400> 9633

tatgttgcaa acatttacia tagacctcct caacctcttt agaaaaatcaa ccacaacaga 60  
 acaattatga cctctccagc aacatataca atcccggatg aggaatcatc ctaatctcaa 120  
 atgggtctagc cctcaacaac aacaacagca gcctgctcct tccttccaaa atgttggttg 180  
 cccaagcaga ccatacatte ctccaccaat ccaacaacag caacagcccc aaaaacaaca 240  
 aacagttgag gttcctccgc aaccttcctt cgaataactt gtgaggcaaa tgactatgca 300  
 aaacatgcag tttcaataag agaccagagc ctctattcag agcttaacta atcagatggg 360  
 acaattggct acacagttaa atcaacaacc agtcccaa atctgacaagc ttgcttctca 420  
 atctgtccag aatcccaaaa ttctacacat 450

<210> 9634  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9634

agcttccttg aaaagattcc taaagaagct agagcttagc tacacacacc tctctaatag 60  
 ctaagctcac ctcttgaga tgagaagctt gaacttagct acacaccccc tataatagct 120  
 aagctcacc ccatgacaaa atacatgaaa atacaaaaaa aagtctgtac tacaaagact 180  
 actcaaaatg cctcgaaata caaggctaaa accctatact actattatgg ccaaaatata 240  
 aggcctaacc gaaggaaaaa aaacctatct taatatttac aaagataagc gggctcatc 300  
 ttaacccatg ggctcaaaat ctaccctaag gctcatgaga accctanggc ctcccttg 360

atctctggcc caatctactt ggagctctct at

392

<210> 9635  
<211> 429  
<212> DNA  
<213> Glycine max

<400> 9635

agcttaaaaa ccaactggta gttgaaactt aactaaaggt tatgtttgac aaaactaatt 60  
ggaagcttaa aagcttaaaa actagctagt caataatttta tgtaacactt caaattcttt 120  
ttccaaaaat ttgcttcaaa aactatttaa ataataaata ttatgaaatg tgtcatttac 180  
tcttaatttc tatttctaag ttggcaaagt atctcatcaa ttttcttttt ataaattaga 240  
tgaaataaaa taaagtaaaa taagtgtgtt gcttgaaaaa tgcaagtttt cacatcacia 300  
tattaaattt gtaaataaat gaacttaggt ttataatatg atgcctttgc cgcaaataaa 360  
gcaaataaat agtctcacac tagaagaaat ttggatacaa cccacagtgt aaaagtagtt 420  
aatgattg 429

<210> 9636  
<211> 358  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9636

agctttagg cctttgatct tcttcattat tagagtcttt tgcttcttga agatcaatgg 60  
aagtggaata gagaaggagg aaagggtgatt ggagatgcca cttcaaggag aagatgagtc 120  
aagaacaagc tcaactacat aggaagccat ggataagagc ttgaaggtag gagaaaatga 180  
gtggagggag aggcagagag gggggaacaa aatttatgcc tcaaatgagg tcagaacttt 240  
gaagtcta atctcaaatg atcaaagttg aaaaaattca cacacaaggc ctctatttat 300  
agcctaagtg tcacacaaaa ttggaggggaa attngaattt ctattncaaa ttatcttg 358

<210> 9637  
<211> 425  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9637

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acatatattga cctctccagc aacagatata accctggatg aggaatcacc ctaacctcag 120  
atggtccagc cctcagcaac aacaacagca gctgctcct tccttccaaa atgctgctgg 180  
cccaagcaga ccatacttc ctccaccaat ccaacaacaa caacaacccc aaaaacagcc 240  
aacagttgaa gcccctccac aaacttcct cgaagaactt gtgaggcaaa tgactatgca 300  
gaacatgcat gtttagcaag agaccagagt ctcaatttag agcttaacca atcagatggg 360  
acaattggct acccaattga attaacaaca gtcccagaat tetgacaagt tgtcttctca 420  
agctg 425

<210> 9638  
<211> 446  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9638

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gtgccttggg gacttggttg tcatgggttc gaatccggaa acagcctctt tgcatatatg 180  
caagggtaag gctgcgtaca acatccctcc ccatacctt cgcatagcga agagcctctg 240  
ggcaatgggg tacgaagttt ttttttttta ctctttatta aattgatcct ctataatcaa 300  
tattaatcct attgttcat tataaataaa gacttagtgt ggatcatcaa cacacacaca 360  
acattacagt aaaatacttt tatatattaa catctttgag agaaatatca tatcatgtac 420  
acttaaanat aacagcaata taatga 446

<210> 9639  
<211> 357  
<212> DNA  
<213> Glycine max

<400> 9639

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gaataacggt taaaacctgt tagtgcttat ctctactgac tttaaaagat aggctaagat 120  
 tttgttaaaa cataagcact tatacaatga aggaaagctg gagttgctgc acatgatgtc 180  
 caacggtatg tcaaggaata agatcgggct gcacaatgca caaggcaaga taaaatgtca 240  
 aatgaagaat tgaaagtgcg ggatccacga tgtcggatac aatgtcctga catcctgccc 300  
 gagaatactg gagttgctgt acaatgcaag ataaaagtca agtgcagaag tgaagct 357

<210> 9640  
 <211> 355  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9640

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 tagaaaagtt tctgaaaaac acaaatgata ggccaagtga gtttctatct taacaaaaac 180  
 ttttccaagc attttactct ctggtaatcg attaccagag gttgtaattg attaccagtg 240  
 gccacaaagc tttctggaaa tgttttcaaa gttattttca aagttttcaa agttgtaatc 300  
 gattaccaat gctttaaaaac agttaaaaaat gattntgtaa atatgtaatc gatta 355

<210> 9641  
 <211> 401  
 <212> DNA  
 <213> Glycine max  
 <400> 9641

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 actagagcac atgtttcctc ataattctatc cctctctctt ggttatatcc tttggcgact 120  
 aatctagccc tatttctaata aattattcct ctggaagat cataatttgt tttgacttca 180  
 tcaacttgag agtcttcatt gtttatttct ccttttcctt tatgatattt tccaagaata 240  
 tgtatttctt cttatgatcc tgaaatatca tctagtatat cctttcttgg caaaatagca 300  
 ttagattcat caaaagaaac atgaatggat tcttcaataa tcatagttct ttgggtatat 360  
 attctatatg ctttactctg caatgaatat ccaagaaaga t 401

<210> 9642  
 <211> 319  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9642

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 taaaaagggg aaaggttaata ttgtagccga tgctctttct ggcgtcatgc attactttct 120  
 atgcttgaaa caaaattgat tgggtcttgaa tggttgaaaa gcatgtatga aaatgatgaa 180  
 acttttggag aaatttttaa aaattgtgaa aaattttcag aaaatgggtt ctttagacat 240  
 gaagcctttc ttttcaaaga aaacanaatg tgtgtgccta aatgttctac tagaaatttg 300  
 ctggtttgtg aagcacatg 319

<210> 9643  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9643

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 tttaaattatt tagctctatg catatatgat tggggtaatt tgcaggtatt ttacttgtgc 120  
 aaatgtgatg cctgggtcac ttgggtatgg agagcaagat gccaaagactt tcgcatcatg 180  
 ggtatataac actgcttctt tcttaaattt gattattcct ttgcttcac tcaaacatat 240  
 cagttgctat ttaacaaaacg ggtattatca tcattgtttt atctttctta ggggtgtgat 300  
 tatcttaagt atgacattng taacaatggt ggaacacagc ctattgatag gtatgtaaaa 360  
 tagttatatt ttcacaacac tgttatata 389

<210> 9644  
 <211> 332  
 <212> DNA  
 <213> Glycine max

<400> 9644

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aatgaccggt tatgagctca acctctgcta cacaaagaag gattagtagc tgactatctt 180  
 atgattcttt cccactgct ctttttttct tctgatgaat actagtcttg aatggcactg 240  
 tcacatggta aagaatatga tgggtacttcg atatgtatag aggccattct ccaatatatg 300  
 gttgatttaa tgggagatcc taatgacatt gc 332

<210> 9645  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9645

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 gttaaaactc tattggttta gctttcattt catttttttt ggtcttttgt tattgcttgt 120  
 ctctttgttt ccttgcttgt gagttgccat ataggggaatt ggaaatgagg attggtgcca 180  
 tatcttaaag aatttgagt aagaagcaag gggccaacca ccttaagagc tattggacta 240  
 agaagcactc caaattgagt gaaacactaa agagagaata gccaccacaa ttgaggactn 300  
 ttttctttgt aattttgtaa ttggcaattt gctntgcttt caaattttgt aacaaaaagg 360  
 cctttcattg gaagtaagtt gggagcctct gctangtcac cctactttca tttgtatgta 420  
 ata 423

<210> 9646  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9646

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 ttgttgctca taaaacata aatcttttac aaaagggtgt taagagtgcc tttttaaatg 120  
 gtttcattga ggaggaactc tatgtttaag aacctcctgg ttttgaagat cacactnttc 180  
 tagatcatgt gtttaaactt aaaaatgcta tgtatgattt gaaacaagca cctcgtgcat 240  
 ggtatgatag actgagctct tttcttttag aaaatggttg tttcggaggc aaaagtaata 300  
 ctactctttt tagaagagaa gtgggaatgg tttcattata ttttaattat gtagatgata 360

tatatattgga gtactaatg

379

<210> 9647  
<211> 362  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9647

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tatcggcgac agttcaatcc agactgatga aaggatgatgg agactcccct tctaagagaa 120  
gatgagttaa gagcaagctc accaccataa gaagccatgg ataagagcct gaaggcagga 180  
gaagatgagt ggaggagagag ggaagagggg gaacaaaatt ttgagagaga taagaggagg 240  
aatgaggtct aaagtttgaa gtctaatttc tcaaattatc aaagttgcaa aatgcataca 300  
caaggcattt atttatagcc taagtgtcac ccaaaattgg agggaaattn gaatttctat 360  
tc 362

<210> 9648  
<211> 307  
<212> DNA  
<213> Glycine max

<400> 9648

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aggtagtccc gaaaagacc atcctcacag tgataaagca tgagacggag gagctgattc 120  
ctactcgggt gcacaataaa tggagagtct gcattgacta tacgaggcta aagcatgata 180  
ccaaaaatga ccattatccg atgccataca gtgaccagat gcttgaatgc ctggcagggg 240  
aatctcacat agctgggtct tgatgggttt ttgggatata tgcttataac tattgtctat 300  
gaggatc 307

<210> 9649  
<211> 365  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9649



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taggatttag ggtgtagggg ttatggttta gaatttagag gtaatgggtt aggggtcaagt 120  
cttagcggtt aggggttagg ttttacgggt taggggtgaa ataaaattac tccagactca 180  
tatgcatcta atgaataaa attacattta gaagttgaaa taaatggagt ggatcaagcc 240  
aggttgagtg acttttagtta tccataagta aaccttaata aactgaatac catacattac 300  
gtgtgaaatt caaatgagaa atatacaaca aaatatttaa acggagacat gcaaatcatt 360  
cattt 365

<210> 9650  
<211> 389  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 9650

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tttgcctgatg gcttcttccc gttccaagct tcaattggag tctgtctttt acagaacttag 120  
ttggacatct gttgagtatg taaacagcaa tgtagactac ttcagcccaa aatgtgttag 180  
gtagtccctt ctcccttgagc atcgatctag ccatttccat aactgtgcga ttttttctct 240  
cagacactcc attttgttga ggagaatatg cgactgtaag ttttcgctca atgccttcat 300  
cctcacaaaa tctttcanac ttgcgagagg tgtactcttt tccgtgatca cttcttaata 360  
cttttattca ttttccactt tgatttttc 389

<210> 9651  
<211> 379  
<212> DNA  
<213> Glycine max  
<400> 9651

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cccatgcagg aatgcaattt taacatctaa ttgctccaag tgaagattct ctgcagctac 120  
tatactcaga ataactctga tggtagtcat ctttacaact ggagagaaga tctctgtgaa 180  
atcaattcct tgtttctgct gaaacccttt caccataagt ctgccttctt atcttcttct 240

accgtcagat tcttccttta gcctatagac ccacctatct tgtaacgttt tctttccttt 300  
tagcaattta gttagagacc acgtcttagt cttatgaagg gatgtcatct catctttcat 360  
cgctagctcc cacttaata 379

<210> 9652  
<211> 406  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 9652

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gtgactaaag tcagaatagt tctgattctt ataggtttca caactaggga aaatgtttct 120  
ttgaaatcaa aaccagggtg ttgatggaag ccttttgcta caagacgtgc cttgtactta 180  
ctgacagacc catctgaatt atgcttgact ctaaaatccc gcttgcaacc aattgggtgc 240  
ctattaggag gtttaggaac cagttcccat gtattgcttt tgagtgtgc aaccatttct 300  
tcatccatag catctttcca cttanggatc ttaagtgtng ttnttgacag tttaggcaca 360  
acatgagtta aaagccaggg tgggtggagt ctaggcttga caattc 406

<210> 9653  
<211> 297  
<212> DNA  
<213> Glycine max  
  
<400> 9653

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catttgcttc caaagtttca tggccttgca ggtgaagacc cgcacaaaca tttgaaagaa 120  
tttcacattg tctgctccac catgaaaccc ccagatgtcc aagaggatca catatttctg 180  
aaggcttttc ctcactcatt agagggagtg gcaaaggact ggctgtatta ccttgctcca 240  
aggtccatca cgagctggga tgaccttaag agagtattct tagaaaaaat ttccct 297

<210> 9654  
<211> 319  
<212> DNA  
<213> Glycine max  
  
<400> 9654

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 caaaaagtta ttgtcgtttg aattagctca gagcatcaga attcaatttc gatcgtctca 120  
 atatattacg ggactcaatg agacatctga gtaaaaaagt tattgccgtt tgaatttggt 180  
 gagagcttca acattccatt tcgagcgttt cgatatctta cgggactcaa tcagacatcc 240  
 gagtaaaaag ttattgtccg ttgaatttgc tgagagctcc aacattcaat ttcgagcggg 300  
 ctgatgttta cgggactca 319

<210> 9655  
 <211> 382  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9655

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 ccttgctcac ctctattccc ctctactatc cttcttgaac catgaatgac atttctccca 120  
 attgagaact agattggact cttcacatct ttgtaatact ctttcaagat ttgataagca 180  
 ggcttcaaaa gatggcccaa aattagagaa atcatccatg anaacttcaa tgcatttttc 240  
 caccatatca gaaaaaatag ccatcataca cctctgaaat gtagttaggg cattgcatag 300  
 accaaaaggc atgcgccgat atacgaatac accaaaagg cagggtgaaag tagtactctc 360  
 ttgatcttgg gatctacaaa at 382

<210> 9656  
 <211> 353  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9656

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 ctcaaagtct taggatgaag caacaactag aagactttgg agtaaaccct gatcacattt 120  
 agggattagg catatagaaa taaggcatca ttttcttaga gatcatgtgt taaaagggtta 180  
 caactacatt gacttcattg atagtaagca tcaactagca gacattttca ctaaaccgct 240  
 tgctagagat aggttctttt tcattagaaa ggaactaggc atattggatg catctagcat 300

agaataatat tttgtttgca tagtgtgtga atcatatngc tattcatatc att 353

<210> 9657  
 <211> 347  
 <212> DNA  
 <213> Glycine max

<400> 9657

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 tataaatata tttttatgaa tctaattact gtaatatatt gatatgggtca agattttaca 120  
 ttatcattta cttttttatc gttatataag atgataaaat tghtaattttg taataaaaaa 180  
 acttattatt ttaacaccat ataactaatg tatagtataa tttgtttctac gtcataata 240  
 tatcagaatt aacataact gttatttgat ttagtcttct acatattttt attattttct 300  
 tatccctcga ttaagattat tttttaacat catgagaata tatttttt 347

<210> 9658  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9658

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 gatcgctagc tgccatgttc tcaatgagtt ccatcacttc ctcggtgtgc ttttaactga 120  
 tctttctctc cgtggatgcy tccagtaatt gcttcgattg aggtcgtaat ccatcaataa 180  
 agatgtttta ttgtactagc tcgctatata catgagtggg cgttttctct aacaatccgt 240  
 ggaaacgata taaggcttcg ctaagggatt catctagtaa ttgatggaaa gatgagattt 300  
 ccaatttccc ttcagctgtc ttggattcan ggaagtactt tntcataaat ntctctacaa 360  
 cttctttccc aagtcctaaa ggt 383

<210> 9659  
 <211> 341  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9659

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 ttttaactcct tttgcagggtg gagctgatat tgaggaggag gaactaacag atttgagggtc 120  
 aaatcctctt caaggggaag aggatgatgc aatcccccta tgaagggacc aatcactaga 180  
 accatgagca agaggtccca agaagattgg gctagagctg ctgaagaaag ccttatgggt 240  
 ctcatgaacc ttanggtaga tttctgagcc catggggccaa ggttgggtcc aattatcttt 300  
 gtacatatta gactaggatg tcattatatt tgggcccttg a 341

<210> 9660  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9660

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 catggtcaac tccaagaac agtggatgta attgcagaag acgacctgtg tgattcttgc 120  
 aagcctggag atcgagtggc aattgtgggg atatataagg ctcttgcaag gaaaaggtag 180  
 tgtgaatgga gtatttaggt agctccagaa aatatactga cataactcct ttgcacttgc 240  
 ttgctttctt gaacagaaac ttgattgact gattttcatg taggactgtt ctcatagcca 300  
 acaatgtttc tcttctcaac aaagaggata atgcaccaat ctacagtgtt gaagatgtca 360  
 aaaacattaa agagatagct acaagagatg atgcanttga tctgctaagt gattcacttg 420  
 caccttctat atatgggcat tcttgga 447

<210> 9661  
 <211> 356  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9661

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 gaaatcagaa acctttgaag tattcaaaga gttgagtcta agacttcaaa gagagaaaga 180  
 ctgtgtcatc aagagaatca ggagtgaacca tggcagagaa tttgaaaaca gcaggttcac 240

tgaattctgc acatctgaag gcatcactca tgagttctct gcagccatta caccacaaca 300

gaatgggata gttgagagga aaaacaggac cttgcaagag gctgctcggg tcatgc 356

<210> 9662  
<211> 452  
<212> DNA  
<213> Glycine max

<400> 9662

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taaaaagtta ttgtcgattg aattggctca gagcttcaac attcaatttc gagggctcgc 120

atatattgcg ggactcaatc agacatccga gtaaaaagtt attgtcgttt gaattggctc 180

agagcttcaa cattcaattt cgagcgtctc gatatatgac gggactcaat cagacatccg 240

agtaaaaagt tattgtcgtt tgaattggct cagaggttca acattcaatt tcgagcgtct 300

cgatatacta cgggactcaa tcagacatcc gagtaaaacg ttattgtcgt ttgaattggc 360

tcagaggttc aacattcata ttcgagcgtc tcgatatatt acgggactca atcagacatc 420

cgagtaaaaa ttattgtcgt ttgaattggc tc 452

<210> 9663  
<211> 427  
<212> DNA  
<213> Glycine max

<400> 9663

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acgagacatc ttgccaaaca aagtcaggtt agcgataact cgccctgtgct ttttcttcca 120

tgctatatgt agcaaagtca ttgatccagt caagtttgat gagatggaaa atgaggccgc 180

aatttatatt tgccagttgg agatgtattt tccccctgct ttttttgaca tcatgattca 240

cttgattgtg catctggctc gagaaatcaa atgttggtgt cctattttatc tatgggtgat 300

gtacccgatt aagcgatgca tgaagatctt aaaagggtat acaaagaata tatatcgtcc 360

aaaagcatct attgttgaga ggtacattgt agaagaagcc atttgaattt gttcagaata 420

cttagag 427

<210> 9664  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9664

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attaatcatt tgtcaccatt attcttaatt ctctcttctc ttcacaggta caaggtagca 180
ttaggggtgg ctttggccct tcgttatctt catgaggatg cggagcagag tgttcttcat 240
agggatatta agtcagctaa tgtgttgttg gacacggatt ttagcaccaa gcttggcgat 300
tntgggatgg ctaagttggt ggatccaagg ttgaggactc aaaggacagg gctgggtggg 360
acttatgggt accttgcccc agaatatat                                     389
  
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<210> 9665  
 <211> 457  
 <212> DNA  
 <213> Glycine max

<400> 9665

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accaaaaaaa agtccttact acaagaata ctcaaaatgc cccgaaatac aaggctaaaa 180
ccctatacta ctagaatggc caaaatacaa ggcccaaacy aaggaaaaag ctattctaatt 240
atttacaag aagagtagat ccaaccttta cccatgggct caaaaatcta ccctaagggt 300
catgagaatc ctagggcctt ctttagtagc tctagcccaa gcctcttgga gtcttctatc 360
caataccctt ggggggtagg attgcatcat cccctccagc ttggaaagga ttgacctca 420
aatcccgagg ttcttcatac tctaggctcc ttccctc                                     457
  
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<210> 9666  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9666

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gcctagtcca ttctaatga aaaagaacct atctctagca agtgggttag tgaaaagtct 120  
gcttggtgat gctcactatc tatgaactca atgcaacaat cacccttttaa cacatgatct 180  
ctaagaaaaat gatgcattat ttctatatgt tcagtcgaat aatgcattgcc agaattttta 240  
gttagattga tcacacttgt gttgtcacat tttagaggaa tgtgatcaag gtttactcca 300  
aagtcttcaa cttgttgctt catccagaga ttttgagcac aacaacttcc tacaactata 360  
tattaagctt cggtagttaga agtgctaca 389

<210> 9667  
<211> 427  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 9667

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tcaaattaat gtgagcacca tattaattat caactgggtga attcaattaa gttcttaatt 180  
atattccaac aacaagatcg cagaaattaa cctgaaagaa agaggtttga gagggatcca 240  
gcctgtggtt gccaggagga acaacaacat caatagggtgc aaccaaccct acacgagcag 300  
gagctaccaa ctgtatagaa aatntggata acaacatcca aaagtgaata tataggaagc 360  
tcacaactta attaaaggta actttctctc attcaacata tatatacaact aactcaatc 420  
atagcat 427

<210> 9668  
<211> 423  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 9668

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attaagaact agctcttttc ttctctatt gcctttagt gaatacacct ttgtttgggt 120  
ctctatttgg ttcttaaccc tctcatgcat cttctttaca aattctgacc tagattcccc 180



ttctttatgt ataaaaaaag tgtccagtgg gaggggaatg aggtctaacg gtgttagggg 240  
 attgaacca tagacaacct caaaagggga ctgcttggtg gttctatgaa cccccctgtt 300  
 gtaggcaa at tctacatgag aaagatactc atcccaagac ttatggttgc ctttcagaag 360  
 agcccttana aggggtggata aagacctatt cactacctct gtttgcccat cagtttgtgg 420  
 atg 423

<210> 9669  
 <211> 457  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9669

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 catttgctgc ccaagtttca tggctttgca agtgaagatc ctcataagca tcttaaggag 120  
 ttccatattg tctgttcac catgaagacc cctgatgtcc aggaagatca tatctttcta 180  
 aaggcttttc ctcatctctt ggaggaagtg gcaaaagatt ggtgtacta ccttgctccc 240  
 aggtccatta ccaactggga ttacctgaag aggggtttct tggagaaatt cttccctgca 300  
 tctaggacca ctgcaatcaa aaaatacatt ttatgcatca ggcaacttag tggagagagc 360  
 ttgtatgagt actgngaaag attcaagata ttatgtgcaa gctgtctca ccaccaaatt 420  
 tctgagcagc tccttctgca atatttctat gagggac 457

<210> 9670  
 <211> 424  
 <212> DNA  
 <213> Glycine max  
 <400> 9670

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 tccgattcaa ggcataata tatcgagatg ctcgaaattg aacaacgaat gctctctgta 120  
 aattcaa atg gtcataactt gtcacacgga agtccgattc aggtgcataa tatatcgaga 180  
 cactcgaa at tgaacaacca aagctctcga gaaattcaaa tggtcataac ttttcacagc 240  
 gaagtctgat tcaggcacat aatatatcga gacgctcgaa attgaacaac gtatggtgtc 300

gagaaattca aatgggcata acttgtcaca cggatgtccg attcaagcac ataatatatc 360  
 cagatgctcg aaattgaaca tcggaagctc tcgagaaatt ccaatgggtca taacatttca 420  
 cacg 424

<210> 9671  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9671

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 aaagtccgat tcaggcgcat aatatatcga gacgctcgaa attgaacaac gaaagctctc 120  
 gaggaattca aatgggtcata tcttgtcaca cggaagtccg attcaggcgc ataatatatc 180  
 gagacgctcg aaattgaaca acggaagctc tcgagaaatt caaatgggtcg taacttgtca 240  
 cacggaagtc cggttcaggc gcataatata tcgagacgct ctaaattgaa catcggatgc 300  
 tctcgagaaa tgcaaatggt cataacttgt cacacggaag cccgattctg gcgcataata 360  
 tatcgaaacg ctggaaattg aacaacggaa gct 393

<210> 9672  
 <211> 448  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9672

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 caaatctggg aatcaccaaa aagcctgtgc ctgacttcag gtaaattgcc tatttgatat 120  
 atccatcata ttgacaaatg tatttcaatg atagtgttt gtggttctga tgtttatgtg 180  
 ttcatgcgtt ttggcatatt gattgcagtt tctatgatcg ttcattctcca atctacaccc 240  
 aaccacgata tttgcctccc tctaagatgc ttgatgtga tgtcactgat agtgttattg 300  
 gtgaaggatg tgtgattaag gtaagcattt cagaaccttc acattctact gatctgctct 360  
 gtacatgaga attatacaat tcttaacaaa gatgtcaaata ataatgagat taattttatt 420  
 ataggaaact aaccttgtat tccatact 448

<210> 9673  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<400> 9673

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tgagagagta gcataaaatg gagccacctt gctaactcat gagacatccc atttgtttgt 120
ctcttgacca aaacctattc caaagggtga aaattgggcc aaaacctggt agacaaatga 180
cctcagataa cttaagaagg ggggttgaat taagatattg caaactatct cccaattaa 240
aattctatct taatttcaat gcaagttaca agttccctta aaaatgaact cttaaataat 300
gattcaaata aaacaatctg aatataaatg caaagcaata agaaataaaa tagtttaagg 360
gaagagaaa tgcaaaactca gatttatact gggtcggcca cacccttggt cctatgtcca 420
gtccccaag 429
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<210> 9674  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<400> 9674

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tacagccaac gacttagaat aatgggggtca ttccgaaaca tctcctgtag ttcttcaaga 120
aggtgagaaa ttagaagatt tcagtgcaaa tgaatctcat ttgactgttg aacctgatcc 180
tccacagctc aattctggaa tcaatcagag accaaaaagg atcactatac ctctgaaag 240
atacggattt gaagacatgg ctgcctatgc attacatgca gttgaagaaa tagattcaaa 300
tgaaccaacc acttaccaag aagctatcaa tcctcctgaa gctgagaatt ggttgtagc 360
tatgaaagac gaaatggaat cttgtataa gaatcagacc tggaaacttg ttgaact 417
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<210> 9675  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9675

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 acgtttctaca aactcccagg tggttgtctc aaaccaggag agaatggtaa gatcttgcctt 120  
 atttttttct aaatataata gtctgaaaat aacaactcat gattatctta atgtacattt 180  
 ttgtgggctt gaagagaaaag ttgactagca agcttggtgc taattcatca gcttttgc 240  
 ctaactggca ggtattatta ctttttattg ttaaatttgg cagttggtgt ctatttgc 300  
 ctttattggt gtcatttgca tgtatccttg gaaaactgca gatagggtgag tatgtagaaa 360  
 tctggtgaag gctcttcttt tattgaagta cactgctaag ccacaataca agtgatcgag 420  
 gccgtacccg aatcatataa acatga 446

<210> 9676  
 <211> 453  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9676

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 aggaatccat tgatgaagaa gatcctaggc ctacaagctc aaatggagct tacatcatgt 180  
 ggtatcaaga gcatcttcat ctagggtgatg ttcatttgc tctctatct ttttgttcgg 240  
 tgaattctct ttagttcctt gttcttcctc ttattctcca tgtatactct ccattgtctt 300  
 gtggtttggt gctgtttaga gtatattcaa aaaaataaac cgattaaatc ttagatctac 360  
 atttgttctt gcatttctct ggttcanatt ttgtagatct actcttgaat cttgggtttg 420  
 tgttgatttt aggttctatc aattntcatt cat 453

<210> 9677  
 <211> 388  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9677

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 caacagctctc atctttttat ctgtttctta aatggccatc aaaggcttat atatatgtga 120

cttgagacac aaatttgaaa agagttttca agaacaaaga ggtcttatcc tcttaaaaag 180  
 caaaatagtt tctatcctct tacaatttcc ttggccaata cacttgatgat tcaataagga 240  
 attattngag tgctcaaatt gtccaatcta tctctttcaa gagagatttc ttctcctctt 300  
 cttctttatt ctgaacaggg attaagagac cgacgggtctc ttgttgtaa aagaattcta 360  
 aacaacaagg aatgattgtc cttgtgtg 388

<210> 9678  
 <211> 406  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9678

ngtctanagg tgtgtttgat tcccatatct tctactttgg caaaacaaaa tcaaaattga 60  
 acttctcttg ttcttcaggc ttggcagcag tatcaccatt cctatcatta ataattgatt 120  
 ttgggtcttt aacgggttgg acaacctcag tgatagaacc caaagcttctc tctctttgac 180  
 gagctggtaa atgatattaa atgattactt ttaaagtcag aatatccat attactaata 240  
 atggcttaac atattaccat cataacgaat taatgactta ngtaatccat ttggctgtaa 300  
 tgctttttca ttccgcctt ctgtatactt gctcacttca acctgcattc tgtagtaata 360  
 gatgtattag cagtaagcat atttcagctg ttacttaata ctaaaa 406

<210> 9679  
 <211> 417  
 <212> DNA  
 <213> Glycine max  
 <400> 9679

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 tatatccaga cgctcgaaat tgaataccga agctctgagc aaattcaaac gacaataagt 120  
 ttttactcgg atgttcgatt gagtcccgta atatatcgaa acgctcgaaa ttgaagaccg 180  
 aatctctgag caaattcaaa cgacaataac ttttactcgg gatgtctgat tgagtcctgc 240  
 aatatatcga aacgctcgat attgaatgtc gtagctctga gcaaatacaa acgacaataa 300  
 ctttctactc cgatgtctga ctgactcggg tgatatattg agacactcaa gattgattag 360

cgaagctctg agacaattca gatgacaata acattttact cggatgtctg agtgaga 417

<210> 9680  
<211> 371  
<212> DNA  
<213> Glycine max

<400> 9680

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cccgacaaag acactgacaa aaacttatct tctccttttt ggacaaagta tgacaagctg 120  
ggggcaaata aatattcttc ccatctgacc ttggatgcaa ctgtgatcat atccccatct 180  
cagctagatc atgacgggta ttcaagccat ccttcgtctt gccttgaatg ttaaggagcg 240  
taccaatgac actgtcacat acattattct ccacatgcat aacatcaata caatgtctaa 300  
cgtctagatt agaccagtac ggaagatcaa agaaaaatgga cttcttcttc catatgcaag 360  
tcttactttt a 371

<210> 9681  
<211> 454  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9681

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tctttctccc catatccact atgcagcttg cagtttagcat gaatggcctt cccaatatta 120  
caggaatgtc attatcttca cagatatcca ttaccacaaa gtctgcctgt tttactctga 180  
ccagcacatc ttcaattact ccatatggtc tggtaatgga gcgggtcaaca agttgtaaag 240  
tcctcctagt gggcatgac tctactctc ccaaccttct gcacatggag agtggcatta 300  
agttaatact ggctcccagg tcaataagag cctttccac agtgacttct ccaattgaat 360  
aaggaatggt tacactccca gggctctata gctngggtgg aaggaccttt tgaatcaca 420  
cactacaatt tccatccaca acaatgtttt cctg 454

<210> 9682  
<211> 363  
<212> DNA  
<213> Glycine max

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<223>      unsure at all n locations
<400>      9682
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aggtcagtg	gagtaagatt	tgtttccttg	tattatacat	agatgatatt	ctacttcgca	180
ctaataataa	gggtatgcta	tatgagggtga	aacaatttct	ctcaaagaac	tttgatatga	240
aggatatggg	agaggcatct	tatgtcatag	gcataaaagt	ccatagagaa	agatctcgag	300
gcattntagg	cttgtctcaa	gaaacctata	tcaacaaagt	tttagagaga	tttaacatga	360
aag						363

<210>	9683
<211>	451
<212>	DNA
<213>	Glycine max

<400> 9683

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atggggataat ttcttcattt ggattttgatg aaaaccacat ggatcaatgc atataccaca	120
aggtcagtgg gagtaaaata tgttatcttg ttttatatgt agatgatatt ttacttgcaa	180
ccaatgatca aggtttgcta catgagggtga aacaatttct ctctaagaat atggacatga	240
aggatatggg tgatgcatct tatgtcatcg gcattaagat tcatagagat agacctcgag	300
gtatttttagg tctatcataa gagacctata ttaacaaaac tttatagtga atttggatga	360
aaattgttca ccaagtgttg ctcccatcgt gaagggtgat agatttaatt tgaaccaatg	420
cccataacat gacttttgaa gqgaacagat g	451

<210>	9684
<211>	442
<212>	DNA
<213>	Glycine max

<400> 9684

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aacgaatgct cttgagaaat tcaaatggtc ataacttgtc acacggatgt ccgattcacc 180  
 tacataatat atccagacgg tcgaaattga acatcggaag ctctcgacaa attgcaatgg 240  
 tcataacttt tcacaaggaa gcccgattct agcgcatcac gtatcgagat gctctgaatt 300  
 gaaaaccgga agctctcaag aaattgaaat ggtcataact tgtcacacgg aagtcggatt 360  
 cagacgcata atatatcaag atgctcgaaa ttgaacaacg aatgctctcg agaaattcat 420  
 atggacataa cttgtcacac gg 442

<210> 9685  
 <211> 416  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9685

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 agctgaaaaa aacggggtaa agcaaacaaa aatgaatata tatatataga gagagagaga 180  
 gagagagaga gagagattaa taaaaatcaa ttatatcttc aaaaacactt tttttaccat 240  
 attaaaatac aaatagactt gattaattat aaaattagtt gaaaatattt nttatatctt 300  
 tgaaaaaat taagattatg tntgattaaa ttatttgta tgggaatatn tattatagtt 360  
 gctaaaatat ttttatcatt accttaagga tgttatntgt ttttttatct ttttat 416

<210> 9686  
 <211> 451  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9686

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 acctattacc cagatgtcgg tgcagcttga taatagtctt ctctctcttc ttggtgtagt 120  
 ttctctcttt gaggtttggc cttaggtaat tcagccacct tagtctgcaa ctctctccac 180  
 atctcgcaag acctaacaaa ttaataacaa caacaacaaa gtaaaaccaa ttacaatgga 240  
 ttcatatatg atttagctat aagctgtgca tgtatataat taaatattga atatatggtt 300



cctacaaatt catgtagaag ttaaaccaaa ccttgaaaac agagaagaag aaaaattgaa 360  
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 aaactatttg ataagttcca tccccacctg a 451

<210> 9687  
 <211> 372  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9687

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 ttaccaccgac gaagacactg acaaaaactt atcttcttct ttttcgacca agtatgacaa 120  
 gctgggggaa agtaaatattt ctcccgatca gaccttggat gcaattgtga tcgtatcccc 180  
 atctcagtta gatcttgacg ggtattcaag ccatccttcg tcttgccctg aatgttaagg 240  
 agcgtcccaa tcacattgtc acatacatct ttctccacat gcataacatc aatacaatgt 300  
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 cagtctactt ta 372

<210> 9688  
 <211> 608  
 <212> DNA  
 <213> Glycine max  
 <400> 9688

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 gtaagagggt tataaatatg gagagaatct ttagtattga aaatataacc attgttgatc 180  
 ttgattcttt ctccctctta ttgacagttg ttgtgtattt ttgattgatt ctagataaat 240  
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 aaatagactt gtagatacat tccatttaat ggtatcattt aatattgcat aaactgattt 360  
 attctagaaa gtgcatattt aaatatgcat ttggatggat ttggcaagta cttctcatca 420  
 atcatgttta acatatattt aatcaaatag ttaacacaaa tttatatatt tattttcatc 480  
 aaaatcttaa gagatgtgtg gatcatccta tgatggattg gctagtttct aatagtgaac 540

acatcactat ggaaaatatt gttaaaaagc tcaacaaaaa agaagtaaaa atgttatata 600

tgtacatg 608

<210> 9689  
<211> 644  
<212> DNA  
<213> Glycine max

<400> 9689

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ttctattgcc atgatgaggt catctatagt tttaggagcc tctttgtgtt gtaatgactg 120

aatggcatta aagaagccaa gatctaagac attaaaatca agcaagtttg ggggttgaga 180

aaccaatcga atgtcaaaac cgccttcact agcagcttaa tggaagtcgt tgtcatcttc 240

atcaatgtga catggagcat tgtcttgttg tatgaaaata gtttctcttc tatcccttat 300

tggccatttt gctttgattg cagacaacac atgatgaata agaaaatgtt tgcttacttg 360

tttatttatt gaagatatgt gttttgtttc catagtccct gtatctctgt ttgcactcct 420

tctctttgcc ggctccttg taacaaatgg aaaaatacca atcttgccat ctaaagtctc 480

attgccatta gagtgaatc tttgtctagc catgacaata agaacataac cttgcaaatg 540

aaattcttgc ttctacatgt tcgatgtggc tctctctccc cagcagccaa gtaataattc 600

atagagttct tggtcataata aaaccatctt tcatcaatga atac 644

<210> 9690  
<211> 539  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 9690

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aattctcggt gtttcaaac aactaaaaag aaatgggtgag aagttagaag atgtaaaaat 180

tatggagaat atactacgtt gttagatcc caaatttgaa cacattgttg tgacaatcga 240

ggaaacccaa gatttagaaa ccatgacgat aaaacaactt caaggaccac tacaagctta 300

tgaggagaag cataagaaga tgcaagaagc ataagaggaa gcaagagatc actgagcaac 360  
 tcttgaagat gcaattgaag gagaatgaag aaagtcaagg aaatgaaaga agtcaacaag 420  
 gtcgaggtag agctcnaagt cgcagtcgag gacaagttgg atgtggcaac aatagacgan 480  
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<210> 9691  
 <211> 595  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9691

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 attccttttaa gatattgatg gtgccaccaa attgcttccc tgtgtctctt gaggacctct 180  
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 ttctcgaatg gactcaagct tttcaattct tcaaaaacttg tcaccctctg aggaatgttt 360  
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 acaatctaca acattgataa aaactttctc caatgaattt tgtgtgggag agcaccaacg 480  
 tcttttttat cgacctcttc cacttgaag cacttctat cttcccttan gtatttaatt 540  
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<210> 9692  
 <211> 493  
 <212> DNA  
 <213> Glycine max

<400> 9692

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 ggatcaaatg gagaatatag atctaagga gaaaaaagg agaaaaaag gaatgatagt 120  
 ggtcctaaga caaaaccgaa ttgatggtat taaactcaac attcctccat ttaaaggaaa 180  
 gaatgatccg gaggcctacg ttgagtggga gatgaaaata gagcatgttt tctcatgcaa 240  
 caactatgag gaggaccaga aggtgaagct tgccgccacg gagttttccg actatgctct 300

tgtgtggtgg aacaagctac aaaaggagag agcaagaaat gaagagccaa tggttgatac 360  
 atggacggag atgaaaaaga tcatgaggaa gcggtatggt ccggctagtt actcaaggga 420  
 cttgaaattc aagctccaaa aactaaccca aggcaacaag gtggttgagg agtatttcaa 480  
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<210> 9693  
 <211> 505  
 <212> DNA  
 <213> Glycine max

<400> 9693  
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 caccaagagc attgatgggc tgaacaggcg tgtgaaagat aaggatggaa gagacaatga 180  
 ccgaaatcct cttcattgtg tttccaatgc tgaatgttaa gggagaaatc tgatcaagag 240  
 acatgtatga gacttgattg tacaagtggg agaagacact ctgggcagct acccacctgt 300  
 aaacatcaaa atccattagt taacaacatt ttataaaggg agacataagg ttgggtgggt 360  
 ggttaaggaa aaatgaaaag aaaaaagac tgaatttact cctccctggt aatgaaaatt 420  
 aacaaaacta acatctcaca tctgccata ataaaattca tatagaggat acactatagt 480  
 aatttggcca gcaccatgaa ataaa 505

<210> 9694  
 <211> 537  
 <212> DNA  
 <213> Glycine max

<400> 9694  
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 aggtcagtgg gagtaaaata tgttttcttg ttttatatgt agatgatatt ttacttgcaa 180  
 ccaatgatca aggtttgcta catgaggtga aacaatttct ctctaagaat ttggacatga 240  
 aggatatggg tgatgcattt tatgtcatcg gcattaagat tcatagagat agacctcgag 300  
 gtatttttagg tctatcatag gaaacctata ttaacaaaat tttatagtga ttttgatga 360

aaattgttca ccaagtgttg ctcccatcgt gaagggtgat agatttaatt tgaaccaatg 420  
 cccacaaaat gactttgaaa gggaacagat gaaaaaaatt ccttatgctt cagttgttgg 480  
 aagcctcatg tatgctcaag tgtgcataag gcctaacatt acttttgcag cttgaat 537

<210> 9695  
 <211> 559  
 <212> DNA  
 <213> Glycine max

<400> 9695  
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 cttcaccaga ggataaggta ttaactaatca ccaccgactt tgcttcattc tcttccaaga 180  
 atacatactt caaatgcgct agcaggactt tcaagtctac cttgggtttc tctattgtgg 240  
 gattcttctt tagctcttca aagacacatt cccctaaagg aattaccttt agtttatcta 300  
 ggacctcaa ataggectta agatctctct cctctctttt tgtgagacaa tcaatagcat 360  
 tcatcaatgc cttctcaagt ggagagtgag aggccatgtt ttgcaccccc atattagctt 420  
 ttgtctcaatt gtttccactt tgaaacacgc cttgtgatca ttgggatatt ttatttcttc 480  
 acatgaattg aagggaacttt ttgatcatca acactcattt ctaagttacc attgcccatt 540  
 gtaactacac acttaactg 559

<210> 9696  
 <211> 365  
 <212> DNA  
 <213> Glycine max

<400> 9696  
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 gtgacctcaa taacttaaga aatgggatga atttaagtta aaaaatttct tatttaatgg 180  
 actcttaaat ccctttttaa tctattttat tagaatattg gagatgaaga tgaaaattat 240  
 atcaacagaa tacttcaagt gtgcaagata aataaaaatg gcaagataaa gtaatcaaga 300  
 tagggaagag agaaatgtaa acttagttta tcctgggttg accacttctt gtgcctacat 360

ccagt

365

<210> 9697  
<211> 506  
<212> DNA  
<213> Glycine max

<400> 9697

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attgtgagta gcattctgaa agatgcttct gtgectgatg ctgagaaaga tgttccaaca 180  
tcttccaccc cagatgtttc tgtgectgat gtcaataaag atgttccaac atcctccgct 240  
ccaaatgctg aagccctccc ttcaccagtg gaagaggaat caacagaaga agaggatcaa 300  
gcctcagagg agacccctgc accaagggca ccagaacctg ctccaggtaa cctcattgac 360  
ttggaagaag tcgaatctga tgaagaaccc attgccaaca ggttggcacc tggcattgca 420  
aaaaggttac aaagccgaaa gggaaaaacc cccatcaaga ggtctggacg aatcaagact 480  
atgggccaga agaagagcac tccagt 506

<210> 9698  
<211> 534  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9698

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caaggacaga ccacagggga aataatcaac ttcattgagt ttgatgcaga aagagttggt 180  
gagttcagtt ggcacctaca tgatctgttg ttagtagtcc tacaggtttt agtaggcttg 240  
ttggttttat ataaaaatct tgggcttgct tcaattgctg gttttgttgc aattctcatt 300  
gtaatgtggg caaacattcc cttgggttca acccaagaga agtttcacaa caagttgatg 360  
gagtcaagag atgaaagaat gaaagcgaca tctgagattt tgaggaaacat gaggattctc 420  
aaactgcaag gatgggaaat gaagtttttg tctaagataa ctgaactcag aaagatcgaa 480

caaggctgtn taaaaaaagt tatatacact ntagtcttga tcatatctat attt

534

<210> 9699  
<211> 591  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9699

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taatcccttc ttttatttca tctattttaat gtttcaagaa attctttcat accttcaaaa 120  
ttgacgtatt attttttttc taaatttacc ggtatcaata aggggaaata aaagtatttc 130  
aagaaaggac aactcagtta aataaactta ttgtttaatt aggacaattt aataaaaaat 240  
aataaattat ttttaattct taactaatgt tcaagggata caagattaca attaaaaaat 300  
ttatatTTTT ttaccgagaa aaaggcatta tatttattaa tccttctttc agttttatga 360  
attgcttaaa aaaattccat tcattaacta attcatccgt tgcttaatta taaattatnt 420  
atttttaaaa aattactttt ttagtaataa atgatagaag atatattatt ttaattattt 480  
caataaaaca atatagttaa ataaacattt tttttactta taatcaaatt tatttaataa 540  
ttttaattag atctttataaa ataaaccttt aaaagaataa taaaattgca t 591

<210> 9700  
<211> 542  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9700

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tacaaactct aatggagcta caccaatact aatgccacct ttctttcttt gatgtctccc 180  
catttagtgt tgctaagtc ttgggtgctg cccgaggtgg atgtggtgga tctcttgtca 240  
gaagatgagg tagaggacct agaggaggac acttcgtatg aataagacct catcaciaag 300  
cccgcttat ggaggaagat tcttcaaagg attcatctga ggattctcgt tagaagggct 360  
ttctccatcc aactntattg aattcttttt gtggatacaa ttgactttgg gcttgggtaa 420

ggatgactac tetaagtttt aggattttcc ctttatatgt attttgggac aagtagacct 480  
 atgctcagac cttttgtaat tattaatcat gactacttac attattgggt tgggttggat 540  
 at 542

<210> 9701  
 <211> 668  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9701

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 tctgtatgct ttcattcctc cttcgtcgca ttattttttg agaaaaaaaa atgtgtgttg 180  
 ttctgatcgt attgggggtt tgtttcttta ccaagcacgt tcgcatttta gtgaaagctt 240  
 taaggaactt caatgtcttc tgtcttttac ttttcaagac ttcaatgtct gaattcttta 300  
 cattttcaag acttcaatgt cttcagtctt tacttttcaa gacttcaatg tcttcatgtc 360  
 ttcagtcttt acattttcaa gacttcaata tctttagtct ttacgtttca agacttcaat 420  
 gtcttcagtc ttttatgttc ctaagactt aatgtctcct atttttgnta tgcaagccta 480  
 caacatcttt tgcttaatac ttttgatact tccgtattga tatccttttg ttctttttat 540  
 aaggttcaat tctttggctt tcgctaagtt ccaacccgat agcatgatcg cttgaatgaa 600  
 actagtggcc ttatctttac ttaccttttg attttcaata aaagataagt aaaaaagggg 660  
 cactatca 668

<210> 9702  
 <211> 424  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9702

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 cacatgtcat gccatttggc taataagatt gttggaggaa cttcagctgt tgcaaaagga 180



aagcacaag atctatgttg ataatatatc tacacaagag cttgccaaga atccggtgtt 240  
ccatgaacga agtatgcata tagatacaag gtatctttcc attatagagt gccttaccaa 300  
gaaagaataa aaatcgactc atgtgaaaac ccaagatcaa gttgcggata ttttcaccaa 360  
gcctctcaaa attaagatct tttaaaattg ccagcaaaac ttggtgtgca gaaaaatttt 420  
ccaa 424

<210> 9703  
<211> 588  
<212> DNA  
<213> Glycine max

<400> 9703

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aaaggaagat actggatcat agagtgaatg aactgcagga tagacaagaa accgcagctg 120  
aattagagga gaaaatgaga tctcaaactg gtttactggc tgccaaagat caaggtgagc 180  
ttgtctgat tctttctctt ttgagaagtg atcttgtaat attttttatg gatgagaaac 240  
ttacatttct ggaacttaat ggtttattgc agaaatcgaa gcactaatgc atgcacttga 300  
tgaggaagaa acgcagatgg aagaattaac aaataagatt gtggatcttg aaacggtagt 360  
tcaacaaaag aatcaagaga ttgagaacct tggatcttcc cgtggtaagg ttatgaaaaa 420  
gctttccata actgttagta agtttgatga gcttcaccac ctgtctgcaa gtctcctttc 480  
tgagggttgaa aagctccaat ccagttgct agaaagagat actgaaattt cttttttgag 540  
gcaagaagtt actagatgca cctatgatgc tcttcttgat cacaaatg 588

<210> 9704  
<211> 573  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9704

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actcggatgt ctgattgagt cccgtcatat atcgagacgc tcgaaattga atgttgaaac 180  
tcatagcgaa ttcaaaccac aataacttta tactcggatg tctgattgag tcccgtata 240

tatcgagacg ctcgaagttg aatgtttaag ctttcagcca tttcaaacga taataacttt 300  
 ttactcggat atctgattga gtcccgaat ataacgagac gctcgaaatt gaatgttgaa 360  
 gctctgaact agttcaagcg acaataactt tttactccga tgtctgattg agtcccggaa 420  
 tatatcgata cgctcgaaat tgaatgttga atctctgagc caattcaaac gacaataacc 480  
 ttttactcgg atgtctgatt gagtcccga aatatcgaaa ccttcgaaaa tgaatgttga 540  
 atctttgaac caattcaaac gaaccaaacc ttt 573

<210> 9705  
 <211> 470  
 <212> DNA  
 <213> Glycine max

<400> 9705

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 gttacgggac tcaatcagac atcccgagtaa aaagtcattg tcgtttgaat tggctcagag 180  
 cttcaacatt caatttcgag cgtctcgata tattacgagc ctcaatcaaa catccgagta 240  
 aaaatttatg gtctgttga ttggctccga gcttcaacgt tcaatttcga gcgtctcgat 300  
 atgttacggg actcaatcag acatccgaga aaaaagttat tgtcgtttga attggctcag 360  
 agattcaaca ttcaatttcg agcgtctcga tatgttacgg gactcaatca gacctccgaa 420  
 taataaagta attgtcgttt gaattggctc agaacctcaa cattcaattt 470

<210> 9706  
 <211> 551  
 <212> DNA  
 <213> Glycine max

<400> 9706

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 acactttcta cttgtgaagc cgagtatgta gctgcaactt cttgcacatg tcatgccatt 180  
 tggctaagaa gattgttggg ggaacttcag ttgttgcaaa aggaaagcac aaagatctat 240  
 gttgataata gatctacaca agagcttgcc aagaatccgg tgttccatga acgaagtaag 300

catatagata caaggtatta ttccattaga gagtgcatta caaagaaaga agtagaattg 360  
 actcatgtga aaactcaaga tcaagttgcg gatattttca ccaagcctct caaatttgaa 420  
 gattttcgaa gattgcgagc aagacttggg gtgcagaaga attttccaat taaggaggagga 480  
 tgtagatgat taattagacc aatattaata acaagtttta tgagccttaa attgtggaag 540  
 atgaaagtgt t 551

<210> 9707  
 <211> 583  
 <212> DNA  
 <213> Glycine max

<400> 9707

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 tgattctcta ttgggttctt aaccactca tgcaacttct ttacaaacat tgacctagat 180  
 tccccttctt tatgtataaa agaagtgtct agtgggaggg ggaatgaggt ctaacggttt 240  
 tagcggattg aaccataga caacctcaaa aggtgactgc ttgggtggtt tatgaacccc 300  
 cctgttttag aaaaattcta catgaggaag atactcatcc caagacttat ggttgccatt 360  
 cagaagagcc cttaaagggt tggataaaga cctattcact acctttggtt gcccacat 420  
 ttgtggttaa gaagtggtag tgaaaagaaa gttagtctct agcttatccc ataaggtttt 480  
 ccaaaagtgg ctaaggaaact tggcatctct atctgacaca atggtccaag gcaaaccatg 540  
 gagtctcaca acttccttaa aaaaaagttt gagatgtggg aag 583

<210> 9708  
 <211> 559  
 <212> DNA  
 <213> Glycine max

<400> 9708

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 agtttatgct tcaactgaaa ttaagttaat tacttatgtg agttcttgat ttaatccata 180  
 tttctctccc cctttggcat caataaaaag ccaaagtgc taacaagtat aaaacatata 240

tacactatta atcattcaca agacattcat tgaagaatat aaaaccaatc atgaagcaag 300  
 aaacatgaat agatcaaata tataaaaacc acatagtcac ataacataat tcatgatttt 360  
 tcaaacatac catgcaaata aaagaaatc taaattgttc aaatgtcata ataatatagc 420  
 aaaatacatg gctagaaaaac aaagtgttag taatattaaa aatattagaa aaactaaaat 480  
 gatggtggcg gtggtggtgg tagatcaaag cttgtacgaa tgtaagaaac atcttcttca 540  
 accttggtga ttcttgact 559

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 <211> 434  
 <212> DNA  
 <213> Glycine max

<400> 9709  
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 gaatggagaa ggaggaaaagg tgattataga tgtcacttca aggaaaaaat gagtcaaaat 120  
 caagttcacc accatagga gccatggata agagctagaa agtacgaaa gatgagtggg 180  
 gggagagggg gaaagaagag ggtaccttag taatgtagga tttttcagcc cttgtatttt 240  
 aggacactta tactagtctt tgtattatga ataattttat aatttcacat gcattaaatg 300  
 tattatttga tgtgtgtatg ttggtagata aattcaattg aattagaaga agcacaatgc 360  
 acatgatgta gtaccatgtg agatgtgttg aaagtgaaaa caagatcata gagagaaggg 420  
 gttgacatca tgga 434

<210> 9710  
 <211> 546  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9710  
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 catgcttgcc cgaatgattg catactatac aggcataaat tcaaagaaat gtccaaatgc 180  
 cctaggtgtg ggtcgtcacg gtacaaagta aaggatgatg aggactacag ttcggatgaa 240

aactcaaaga agggcccttc aatgaagggtg ttgtggtatc ttcccatcat tccaaggttt 300  
aagcgtcttt ttgctaattg agacgacgca aaagacctta cctggcatgc aaatgggaga 360  
aactctgatg gaatggtttg tcatccggct gactgctccc agnggaagaa gattgatcgt 420  
ttgtatccgg attttagcaa agaggcaaga aatcttatgc ttggactatc cagtgatgga 480  
atgaatccat atgacaatnt aagcactcaa cacagttcat ggccagttat gctagtaatt 540  
tacaat 546

<210> 9711  
<211> 518  
<212> DNA  
<213> Glycine max

<400> 9711  
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ggaagagttt gatacaattt acacaagttt tatacacaaa agttagtcgt attcatcgac 180  
taacaccagt ccccatgaaa agttagcaat ttccagtgtt gaaaccaaac ataattttgc 240  
ctcatcatcc aacaccagta ccataaacat aaaatgcttc aaatgcttag gcagaggaca 300  
tattgctttt gattgtccaa cctggaggac cgtgatcatg aaggcagatg gagaaatcac 360  
cagtgaatct aaaatcaatg aagaagaagt ggaagaatag cttgaggagg aagctatgta 420  
gggtgatatg ctaatggtga gaaggctctg gggaagtcag atgcagccac tggacaacac 480  
tcaaagagaa aatattttcc acaccagatg cacaatta 518

<210> 9712  
<211> 609  
<212> DNA  
<213> Glycine max

<400> 9712  
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ccaatttttg ttacagggtc atgcccctcg gactcaagaa tgcaagagcc acatacaaaa 180  
ggatcatgga ccgggtcttt aaacaacaaa taggccaaaa tgtcaaattc tatgtggatg 240

acatggtcgt caagtctcat agtgtagccc aacacttaat agatttggag gaagtgtttg 300  
 gagagattca caagtataac atgtgectca atcctgaaaa gtacacattt ggggttgga 360  
 gtggaaaatt cttgggcttc atgatacccc acaagggaat taaagccaac cttgacaagt 420  
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 gtagactgac gtctttgtcc acgtttctcc cgaagcttgc agaaaaggcg aggccattct 540  
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 aggctcgtc 609

<210> 9713  
 <211> 526  
 <212> DNA  
 <213> Glycine max

<400> 9713

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 atatattacg ggactcaatc agacatccga gtaaaaagtt attgtcgttt gaattggctc 180  
 agaggtttta cattcaattt caagcgtctc gatataattc gggactcaat cagacatccg 240  
 agtaaaaagt tattgtcggt tgagttggct cagaggttca acattcaatt tcgagcgtcc 300  
 cgatatatta cggcactgaa tcggacatcc gagtaaaaag ttattgtcgt ttgaattggc 360  
 ttagagcttc aacattcaat ttcgagcgtg tcgatatatt acgggactca atcggacatc 420  
 cgagtaaaaa gttattgtcg ttgaattgg ctcagaggtt caacattcaa ttcgagcgt 480  
 ctcgatatat tacgggactc aatcagacat ccgagaaaaa agtatt 526

<210> 9714  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<400> 9714

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 gtcataggga gcaatgggtc aagtatggtt gtactattat gtctgatgca tggactgata 180

ggaaacaaag atgcatcatt aattttttga ttaactctca agctgggtcc atgtttttga 240  
 agtctgttga tggatctgat tttgtaaaga aaggtgaaaa gctttttgag ttgcttgatg 300  
 ccattgtggt ggaagttgga gaagagaatg ttgttcaagt tgtaaccgat aatgggagca 360  
 actatgtttt atcacgtaag ttgttagagg agaaaaagaa acatatattat tggactcctt 420  
 gtgcagctca ttgtattgat ttgatgc 447

<210> 9715  
 <211> 602  
 <212> DNA  
 <213> Glycine max

<400> 9715  
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 gaattggacc tccgtgtaac aagttatgac catttgagtt tctcgagagc atttgttggt 360  
 cattttcaag cgtatcgata tactatgcgc cttaatcgga ctctatgtga caaggatga 420  
 ccatatgaat ttctcgagag cattcgttgt tcaattagga gcagttcgaa atattattgc 480  
 gctctaactg gacttccgtg tgacaaggta tgaccatttg agttttctcg tgagcttccg 540  
 gtgttcaatt tcaagccttc tcgatatatt atgcgccgga acggatattc catttgaaat 600  
 tg 602

<210> 9716  
 <211> 571  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9716  
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 aatcaatcca tcacatccaa attcagcaaa acaataataa agcaaaatcc aaaaacagta 120  
 gttcctatat ttcccaaaga ctgacaaaca caaatacaca caaaatacta catattgaaa 180

cattcaactt gatataatatt ttccattttc accttgcccc aaagtccaga gtccttatca 240  
 taccaatacc tcccaggctt caactttctga ggagggatag ggcagcccag aatctcagcc 300  
 aactctcttt gtcttaactg cctgccattc acaacaagct gctccggccg aagctgattc 360  
 gcaggacact ccttttcagc cctcattatc tgattaatct ccaaagaact acacactttc 420  
 gacaacattc tggaacactt tcccaaagtc gacctcttcg actcatcaat tggtttccca 480  
 atgcaactca cgcattttct tccctcaggc atagacccca tcgctttcag cacacaggta 540  
 ctgcaatacc ttgaataaca caccaaacac g 571

<210> 9717  
 <211> 460  
 <212> DNA  
 <213> Glycine max

<400> 9717

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 tggcatcatt tctggcgcta aactgttggg agttggaagc catctttctc attaaatttc 120  
 tggcttcagc aggagtcatt tctccaaggg ctccaccact ggcagcatct atcatacttc 180  
 tctccatatt gctgagtcct tcataaaaat attggagaag aagctgctct gaaatctgat 240  
 ggtgggggca actggcacat agttttctaa atctctctca gtactcatac aggtctcttc 300  
 cactaagtgg tctaatacct gagatattct tcttgatggc tgtgggtctg gaagcaggga 360  
 aaattgtttc taagaatact ctcttaaggt catcccagct cgtgatggac ctttgagcaa 420  
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<210> 9718  
 <211> 580  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9718

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 ccacagatgg tccggccctc agcaacaaca acagcagcct gctccttctc tccaaaatgt 180



tgttgccca agcagaccat acattcctcc accaatccaa caacagcaac aaccccagaa 240  
 atagccaaca gttgaggccc ctccacaacc ttccctcgaa gagcttgtga ggcaaatgac 300  
 tatgcagaac atgcagtttc agcaagagac cagagcctcc attcagagct taaccaatca 360  
 gatggggcaa ttggtaccc aattgaataa acaacagtc cagaattctg acaagctgcc 420  
 ttctcaagct gtccaaaatc ccaaaaatgt cagtgccatt tcattgaggt cgagaaagca 480  
 gtgtcaagga cctcaaccgc tagcaccttc ctcctctgca aatgaacctg ccaaaattca 540  
 ctctactcca gagaagggtg atgacaaaana ttacctaac 580

<210> 9719  
 <211> 536  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9719

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 aggtaagtct cttactatt ttcttgatgg tttttctggt tatttacaaa ttcattatgc 180  
 tcccgaggat gaagaaaaga ccacattcac ctgtcccttt ggcacttttg cctataggag 240  
 gatgcccttt ggctatgca acgcccctgg taccttcag cgggtgatgc ttagcatttt 300  
 cagtgtttt ttagagagtt gcatagaggt gtttatggat gattttactg tttatggatc 360  
 ctcttttgat acatgtttgg atagtctgga tagagttctt agtagatgca ttgaaactaa 420  
 ccttgtgctg aattttgaaa aatgtcactt catggaagaa caaggatatag ttttagggaa 480  
 tatcatttcc agtangggca tagaggtaga ccctgcaaag atagctgtta tttcac 536

<210> 9720  
 <211> 428  
 <212> DNA  
 <213> Glycine max  
 <400> 9720

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 tcggttccaa acatgatgac tcaagaagca atacctgctc cttccaacaa taacaacctc 120  
 agagactcca cggttcaact tcatgaacca aactcaaacc ctaatcctaa ccctaattcg 180

gttaagagaa aaagaagcct acccggaaca ccaggcaagt tattatttaa ttaaatcctt 240  
 ctcttctgca tactatatat gtacttactg ttctgattct taattcagaa aaaatatatt 300  
 tgtaattaat tacgggttaa ttatgtggtt gtggttgcat ggaccaagca gatccgaatg 360  
 cagaagtgat tgctctgtcg ccaaagtcgc tgatggctac caaccgattc atctgcgaag 420  
 tatgcaac 428

<210> 9721  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9721

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 aatgatttgt aggtactctt ctagaaggtt ctctacagaa caagccttga gtaagttact 120  
 acttggttca gttttttttt ttgggggggg ggggggggtn tntggntatt tacanattct 180  
 tattgtccc tatgatgaag aaaataccac attcacctgt ccctttggca cttttgecta 240  
 taggaggatg ccctttggcc tatgcaacgc ccctggtagc ttccacctgt gtatgcttat 300  
 cattttcaat gatttttttag agagttgcat ataggtgttt atggatgatt ttactgttaa 360  
 ggatcctctt ttaatcatgt ttggatagtc tggataagtt cttttaaata gcattgaaca 420  
 aacctttggc tgaaatttta aaaatg 446

<210> 9722  
 <211> 510  
 <212> DNA  
 <213> Glycine max

<400> 9722

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 gggcataaat ttccacacgg atgtccgatt cgggcgcata atatgtcaag aggcctcgaaa 120  
 ttgaacaacg gaagctcttg agaaattcaa atgggtataa aatttcacac gtagtccga 180  
 ttcaggcaaa tcacatatcg agacgatcag aattgaacaa cggaagctct tgagaaattc 240  
 aatgggtcat aacatttatc tcgaatgtcc aatttaggcg catcacatat agtcatattc 300

gaaattgaac aacagaagct ctctgtgaaat tcaaattggtc ataacttttc aactgaggt 360  
 ccgattcacg gttataatat atcgatacgc tcgaaattaa acatcggaaa ctctcgagaa 420  
 attcaaaaga tcatgacttt tcacacggat gtccgattct ggccgataat atgtcgagag 480  
 gctcgggaatt gaacaacgga agctcttgag 510

<210> 9723  
 <211> 305  
 <212> DNA  
 <213> Glycine max

<400> 9723

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 atatatcgag acgctcgtaa ttgaaaacag aagctctgag caaattcaaa cgacaataac 120  
 gttttactcg gatgtccgat tgagtcccg c aatctatcga gacgctcgta attgaaaaca 180  
 gaagctctga gcaaattgaa acgacattaa ctttttactc ggatgtccga gtgagtcccg 240  
 caagaaaccg acacgctcgc agttgaaagg ggaagctctc ataaacatcc ctcgactata 300  
 acttt 305

<210> 9724  
 <211> 583  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9724

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 aaagcaggat aagttggaac caagggcctt gaagtgtatc ttcataggct atccacaggg 120  
 agtgaagaga taaaaactgc ggtgtttgga acctagacac aagaagtgc tcatcagaag 180  
 agttgtaatg tttaatgaac ttcaaatgga aaatttaatc ctgccattca agtctgctgg 240  
 aagttagagt tcacaagttc aggtgaagtc tgaagagatt gtaaaccgctc aataatagta 300  
 atggcaagag acaagtttgt tcttgcattc agacaagcaa atgaagaagc atctcaagat 360  
 tattgtttag cttagagatag ggaaataagg acaatcaaac ctcttgaaag atatgggtcat 420  
 gcagatctga tctcctatgc tntaatagtt ggaaaggaga atgaagatca ggaggaaacct 480  
 cagtcctatg atgaggccat aaagcagcag gacaactcan aatggattga agctatggaa 540

gaagaaatga cttctctaga aaagaatcan acttggatac atg

583

<210> 9725  
<211> 544  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9725

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tagatatatt tatctattga acagaactgt caaaaatact agtcactata taatgatctg 120  
aactacatct cacctgaaag tcaatgaagt aagcatgctg tataaaagtg aaacataatt 130  
acaaagtcag cgaattttatt atcaatgaaa tgaaataata gttttaacag tctcaaatcc 240  
actataacac aaagtaaact tgattagtac ctcccagaca tcaatggtaa ggagtggctg 300  
caagagataa aaatgaaatc tcgtcagaca ttttaaccat gatgcttcag ccttatccta 360  
gcattcatgt ttcaaaacat aaaatgaatt atggatatta tgtaatcctt actacttaca 420  
taatagtagt ttcaacaaa ggggttcaca gcattgggag tcttcaccac aactagcttc 480  
ttgtcctcac cagattgaag aggattcaga acatntccca cgtcaagtct gctttcttta 540  
tcta 544

<210> 9726  
<211> 571  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9726

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agcacgaaat tgaaggaaga aaaagagagc gaagttgaac tttgagttat gtctcacaag 120  
actctctttc atcaaaagta caacaagggt tccacatgct tctatttata gactaggtag 180  
cttccttgag aagcttttct gagaaaactt ccttgagaag cttctttgag aaaacttctt 240  
tcagaagcta gagcttagct acacataccc ctctcataac taagctcacc tccttgagaa 300  
gcttctctaa gaagattcct aaagaagcta gagcttagct acacacacct ctctaatagc 360  
taagttcacc tccttgagat gagaagctag agcttagcta cataccccct ataatagcta 420

aactcacccc tatgccaaaa aacatgaaaa tataaaaaaa gtccctacta caaagactac 480  
 ttccaatgaa ggtaagtaaa ttgcanatta caaaattaca aaatggctct caattntgggt 540  
 gggttttctc tctttgggtga ttcactcaat t 571

<210> 9727  
 <211> 500  
 <212> DNA  
 <213> Glycine max

<400> 9727  
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 gaggcatacg ctggaccaac caaacgcggt cttccggatg gtgggatatt gatgagtgga 120  
 tgtcacactg accaaaacttg tgcttatgca agtactgcgg gcaacgctgc cagagcttat 180  
 ggggctttta gcaatgctat acaggctata attgaggaga ctgatgggtgc aatcacaaac 240  
 caagaacttg ttcaaagggc aagagagaag ctgaagaact ccggtttcac acaaaaaacct 300  
 ggactctatt gcagtgatca ccatgttgat gtcctttttg tgtgttgatc tcttctcatc 360  
 tgatgactga tgcatagaaa gagagaataa tgtgtgttgt ttatagaatg ctggtgtata 420  
 gatgtatatg tttggacaat catattgaag ttatgtgtgt gatcatacag gttttctatg 480  
 catcactatt atcaggtacg 500

<210> 9728  
 <211> 484  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9728

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 tatctatagc aaagtcattg accctagaaa attggatgaa ttggagaatg tggcttccat 180  
 tgctctttat caaatggaga tgtattttcc tccatcattt tttgacataa tggttcactt 240  
 aattgttcat ctggcgaggg agatccggtt gtgtggctct tttttttacg gtggatgtat 300  
 ctagttaggc gatataataa gttgttaaag gggtatacca agaatacaata ccgaccagaa 360

atTTtgattg ttgaaaggta tGttgctgaa gaatgtatca agTTTTgtc ccaggacatt 420  
 gaaattggta aatctgtcgt ccttcctgaa actcatcatg gccggacacg gngggggggg 480  
 gggg 484

<210> 9729  
 <211> 373  
 <212> DNA  
 <213> Glycine max

<400> 9729  
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 ttcacccaac aaagacactg acaaaaactt atcttctcct tcttggaaca agtatggtag 120  
 gctgggggca agtaaatTTt ctcccatca gaccttgat gcaactgtga tcttatatcc 180  
 atatcagcta gatcttgacg ggtattcaag ccatccttcg tcttgccTTg aatgttaagg 240  
 agcgtcccaa tcacactgtc acaaacattt ttctccacat gcataacatc aatacaatgt 300  
 ctaacgtcaa gatcactcca gtacggaaga tcaaagaaa tggacctctt ttcccatatg 360  
 caactctgac ttt 373

<210> 9730  
 <211> 569  
 <212> DNA  
 <213> Glycine max

<400> 9730  
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 ccctttcttt gttttgaagc tcattacaag ccttaagtga aaaaccatga tatcacctta 120  
 cccttaagga atTTtgagc tttggaattg ttttggaat aagtgtgtgt gtgtggggg 180  
 gggagggc ataccata cattctcca ccaatccaac aacagcaaca accccagaaa 240  
 caaccaacag ttgaggcccc tccacaacct tccctcgaag aacttgtgag gcaaatgact 300  
 atgcagaaca tgcagtttca gcaatagact agagcctcca ttcaaagctt aaccaatcag 360  
 atgggacaat tggctaccca attgaatcaa caacaatccc agaattctga caagctacct 420  
 tttaagctg tccaaaatcc ctaaaatgtc agtgccattt attgaggtcg gaaagcaatt 480  
 gtaaaagacc tcaaccggtt cacctttctc atttctaatt aacctgccaa acttactcta 540

tttcagaaaa tgggatgaca aaatttacc

569

<210> 9731  
<211> 519  
<212> DNA  
<213> Glycine max

<400> 9731

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ccattgaatc aacaattgag acatggtagc ttctaatgt ttgacaactc gaacattcaa 120  
caccttccat gggcaaagtg ttgggtcccag ttcactagaa gtgagtggaa aaggaagata 180  
tygtggagga cttttgccat gaaatggttt cagaagagca atatgaaata caagatgtat 240  
tttagcagac tcgggtagtt gtactttata tgcaacagta ccaattcttt caatcactgg 300  
aaatagacca aaatagtgc tgcctagctt ccgatgcttc ctcaaagcca ctgaatgttg 360  
cctataaggt tgtagcttaa ctaaaaccaa atcaccaacc ttaaatgca aatctcttct 420  
tttcttatca tcttgcatct tcatatattg ttgagccctt agtaaattac ccttaagctt 480  
gctcaaagtt gatcaacata gtgtaaaaat tcttgagtg 519

<210> 9732  
<211> 426  
<212> DNA  
<213> Glycine max

<400> 9732

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ctaagctcac ctcccttgaga tgagaagcta gagcttagct acacaccctc tataatagct 120  
aagctcacc ccatgacaaa aaaaaatatg aaaatacaaa aaaaaagtcc ttactacaaa 180  
gactactcaa aatgccccga aatacaaggc taaaacccta tactattaga atggccaaaa 240  
tacaaggccc aaacaaagaa aaacctatt ctaatattta caaagataag cgggtcatgc 300  
ttagctcatg ggctcggaat ctaccctaag gctcatgaga accttagggc ctcccttggt 360  
atctctagcc caatctactt ggagtcttct acccaatgcc ctgcgggat aggattgcat 420  
cattcc 426

<210> 9733

<211> 594  
 <212> DNA  
 <213> Glycine max

<400> 9733

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cactactcaa gcttcatgat gatgaatcaa gctgattcag gaagggtggt tgacatcttg 60
agatgatgac aaaaagccca atagagtgat ttcaagattg agtcaacaat tcaagaatca 120
agagtcaaca cttcaagaat caagaaaaga taaattcaag tttcaagaga agaaatcaat 180
aagacttcac aagggaagta ttgaaaagtt ttttcaaaaa acaaacatag tacagttttg 240
ttttccaaaa gaaggagaat caggattagc taagttacca gagctgttac tctctggcaa 300
tagattacca gtttctctgta attgagtacc agtggcaaag attgttttca aaagctttca 360
actaaattta caacgttcca attaatattca aaatggtgta attgattaca agatattggt 420
aatcgattac cagtgtgggt gaacattgaa attcaaattc aattgtgaag agtcacatct 480
ttgcacaaaa atgctttgtg tgatcgatga ccaagatttg ataatagcat tccaatgaca 540
agttttgaac aaaaatcaaa agatggaact ctttcaatgg ttttaaattt tttt 594
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<210> 9734  
 <211> 460  
 <212> DNA  
 <213> Glycine max

<400> 9734

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gaacaattat gacctctcca gcaacagata taacctgga tggaggaatc accctaacct 120
cagatggtcc agccctcagc aacaacaaca gcagcctgct ccttcccttc aaaatgctgc 180
tggcccaagc agaccatata ttctccacc aatccaacaa cagcaacaac ccagaaaca 240
accaacagtt gagggccctc cacaaccttc cctcgaagaa cttgtgaggc aaatgactat 300
gcagaacatg cagtttcagc aatagactag agcctccatt caaagcttaa ccaatcagat 360
gggacaattg gctaccaaat tgaatcaaca acaatcccag aattctgaca agctaccttc 420
tcaagctgtc caaaaatcca aaaatgtcag tgccatttca 460
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<210> 9735  
 <211> 605  
 <212> DNA



<213> Glycine max

<400> 9735

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tagaataaaa aggtatggtc aaaagagtat tctatataaa atatatctcg atacgagtc 120  
tcgaactata gagtatcaac attgctaaga acaagaaatc acgaacaacc atactatcta 180  
tgcaattaag gcaaaacacc atactactaa catacccaga attataaggt tcttataata 240  
agtatacaac gtacatataa gaagtaagaa tttaatagtt aataaggatg tattaaagaa 300  
tcacaaactt caactactac attcacgact acacacaaaa taaagtgagt taagtagtca 360  
tgcggtttaca catcaagaaa ggcatactca tccaagacat atatatgggt caaaagggtt 420  
tcacaacact aatccacaca tcaagataga aataagttta ttaacaacat acaagcaaga 480  
agataagggc ctcattaagc attatccatc agtatcaaag cttcttgcac cacctaacgg 540  
cttaccataa tgtcgaaccc gacttcacaa attatagaga tgggcagtct cataactcat 600  
gactc 605

<210> 9736

<211> 604

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9736

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attaagaaaag ctagcagatg ggccataaag aaatgttata acctggcaag gatacgacat 180  
aaacaagtat tcattttaca caaaagcaca agatgacaaa agtacaatgc agaacacggg 240  
ggtcacccta agggctgaat ctcaacactt tgcaagtgtc aatgacgcca atccctgtgt 300  
agcttttcac ccttactttg gggttcattga tgaaatttgg gagcttaatt atttgaaatt 360  
tacagtatgt gttttcaaat gtaaatgggt tgacagcaac accggtgtgc gcaccgatga 420  
tataggattt acgctggtag atctaaagaa acctgggttac cacaatgacc ctttcatcat 480  
ggcagaacaa gctagacaag tattttacgt gcaagaccct tgtgatgaaa ggtgggtgtgt 540  
ggttctgcan ggcaaaatag ttggtgttaa tgtagaagat gaatattcat acatggacac 600

ctat

604

<210> 9737  
<211> 376  
<212> DNA  
<213> Glycine max

<400> 9737

actccagctg cacagcagat ttctgttatg acccactttc ccaactcatta aaaaccacca 60  
cgccataaac ctagggaact atacaaaaac agatcggccc ctggatggag gaatcgcggt 120  
aacctaaaaa ggcccacacc atcaaacacc ccacacacca ttgtgtcttc cataacgaag 180  
gagcctaggc cgccataacc gcccttatct ccaccagatc tacacctaac tcaagcccat 240  
atacaagacc aaccggaagc ccaactcacgc catccacett aacaacgagg gggccaatga 300  
ctatacaaac catgcacttt cagcaagaga ctaaaggctg ccatccaagc ctaaccctac 360  
agaggcgaca ttcggc 376

<210> 9738  
<211> 644  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9738

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tattataata aataaagcgt tagtatttaa tattattatt attgaaatta atttttgatt 180  
tagtatttga gatttgaata aatatgaaca aaaaagttac taaatagcat ccttcattat 240  
tggttttttt taaaaaaatt taatgattcc caaaagagtt aaataatcaa attatcaatt 300  
gttaacaatt ttggttaaaa caaccatag tgaaacagac aaaatattaa taagaaataa 360  
acttattgaa ttgaaggctc ttaaaaggaa aaaatgcaca tccgtcataa atttaagaca 420  
aagaactttt anaattcttt aattaacatt ttaaccattt atatttgaac aactgtttca 480  
aaaaaaaaa tcttacagaa tcatTTTatc tatttaacgg tgctggaaaa aaaaaaccca 540  
caactcttga attttatttt aatgcacatt tcttatttat aaagaataga aaggggttgg 600

tgcatTTTTct taattccttg ccatggggtt aaaaaagaaa agaa

644

<210> 9739  
<211> 333  
<212> DNA  
<213> Glycine max

<400> 9739

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ttgtaaccga taatgggagc aactatgttt tagcgggtaa gttgttgag gagaaaagga 120  
aacataTTta ttggactcct tgtgcagctc attgtattga tttgatgctt gaagatattg 180  
ggaagcttcc cttgataagg aagaccatta gaagggaat taactactt gggtaaatgt 240  
atgcccattc tagtacctta agtttgttga gagatTTTtac aaacaagaag gaattggtga 300  
gacatgctat tactagattt gccactTTTT atc 333

<210> 9740  
<211> 596  
<212> DNA  
<213> Glycine max

<400> 9740

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tcttcctggg cttattcctt aatggatggc gcctcctctc acctccttc ctttgtcttc 120  
cgctgcattc ccatggtgga aaatcaccat taaaggacct cattgaagct caaagatcca 180  
gcctccatag aagccccaca agcaagcttc catcacttag gctataaata gaggccatgt 240  
gtatgcattt tttcaacttt gatcatttga gaattacact tcaaagttca tacctctttt 300  
gaggcacaaa attttgagcc cttctctgc ctctgcctac actcatcttc tectaccttc 360  
aagctcttat ccaaggcttc ctatgggtgg gagctgcttc ttgactcadc atttcttga 420  
agaggcatct ccaatcatca ttcttcttc tttattctgc tgtcattaaa ctctcatgag 480  
caaaggactc cattgatgaa gaagatccaa ggcctacaaa ctgcaatgga gctacatcat 540  
gtggtatcaa gagcatcttc atctaggtga agtgcttttg cttcctttat cttttt 596

<210> 9741  
<211> 572  
<212> DNA

<213> Glycine max

<400> 9741

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gctagagctt agctacacac cccctataat agctaagctc acccccatga caaaaaacat 120  
gaaaatacaa aaaaaagtcc ttactacaaa gactactcaa aatgccccga aatacaaggc 180  
taaaacctta tactactaga atggccaaaa tacaaggccc agacgaagga aatacctatt 240  
ctaataattha caaagataag tgggctcata cttagcccat gggttgaaa tctacctaa 300  
ggctcatgag aacctaggg tcttccttg gatctctagc caatctactt ggagtcttct 360  
acccaatgcc cttgcggggg aggattgcat cagaaaggct acccttcaaa gacggctctc 420  
caaccgatgt cggatttcaa cgacactgtg ttaccaccac acgtcataac cgatgtagaa 480  
atgtcattag agccgatgta gaaggccttt ttttttaata ttgaacttaa gttccatcat 540  
catgttattg ttgcgagcag aacatatata ta 572

<210> 9742

<211> 514

<212> DNA

<213> Glycine max

<400> 9742

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tcttctattt tcagattggg gatgcctcta acagcacctt tgtcaatgat tttcttcatg 120  
cctcttaagt gcagatgtcc aaatctttga tgccatattc tgacttcac tcttttgag 180  
gatagacatg tggaggagta gcttgtttct tgagggtgcc ataggttaaca gttgtccttt 240  
gatctgctgc ccttcattag aacttcacto ttctcatttg tcaccaagca tcttgacttt 300  
gtgaagttha cattgaatcc ttcacacac agctgactga tgctgatcaa gtttgcagtc 360  
agtcccttca ccagcagtac tttgtccaga ctaagaagtc catcatgaac tagccttccc 420  
attccaatga tcttctcttt agagccatct tcaaagtca catagctagt ggagcagggc 480  
tcaatgttca ccaagaattc ttttaacttct gtca 514

<210> 9743

<211> 424

<212> DNA

<213> Glycine max

<400> 9743

tytaggggta aagtctcacg ataggcaatt gctttttctc aattgtgagc cgtggctata 60  
cgagacatct tgccaaacaa agtcagggtta gccataactc gccagtgcct tttcttccat 120  
gctatatgta gcaaagtcac tgatcctgtc aagtttgatg atctggaaaa tgaggctgca 180  
attatatgtg gccagttgga gatgtatttt cccctgcac tctttgacac catgattcac 240  
trgattgtgc atctggtcag agaaatcaaa tgttgtgccc ctgtttatct acggaggatg 300  
taccagttg agcgatacac gaagatctta aaagggtata cgaagaatct atatcatcca 360  
gaagcatcta ttgttgagag ggacattgca gaataagcca ttgaattttg ttcagaatac 420  
attg 484

<210> 9744

<211> 375

<212> DNA

<213> Glycine max

<400> 9744

aatctatagc aatgtgcttt tctcttatga atatacccag caatagcaac aacctccatt 60  
ctatccaata ggggattatg tatcatttca acaacatttg tagtgcaaac aaaaagaact 120  
tgcaacgcac aactgcttaa gtaattatgg taaaaacaag cctactttgc ctacaggga 180  
ttgaatgaaa gcaatacatt caagaactat ttgaccatcc taagaactac ctatcagcaa 240  
taaacacaat taataaacca tgtacaaatg ctaactatat cacaatctca ctacaaaggc 300  
tctagattat aaattaatac ctttgataga tcaatggtaa catcaagata gtgggtcaaga 360  
aaattagcat tctgc 375

<210> 9745

<211> 435

<212> DNA

<213> Glycine max

<400> 9745

tgcaagcttc tagcgtaacc gctattggtg tctataaaat tcaaaaacaa atccctctta 60  
ttactagcta ttttgaattc tttagttcct gaatgtacaa ctttcaaatt gttgctcggt 120

cccgtatttg ttttttgcaa aaaagaaaaa taatctgaaa caattcacgc tgaatcgtaa 180  
 tcgctattat tactcgaacc atagggaata acagctcaac aagtaattta aaatgtaact 240  
 tttaaattat gtgggatttt ttttaattaca attttacttc aatatctaataa tttgttaatac 300  
 tacttaggtc gcttttttaa tataaatatg aatgtaaagg tgatctactg ataataataa 360  
 gtacttgcta atcacaaatt atgataccta tcattctaca atttaactga attgtataaa 420  
 tattaataaa tttat 435

<210> 9746  
 <211> 423  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9746

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 aatttctcgg gagctctggc tgttcaattt cgagcgtctc gatataattat gcccttgaat 120  
 cygactttcg tgtgacaagt tatgaccatt tgaattccac gagagcattc gctgttcaat 180  
 ttcgagcacc tcgatataatt atgcgcctga atcggaacttc cgtgtgacaa gctatgacca 240  
 tttgaatttc tcgagagctt ccggttttca attcagagca tctcgatacg tgatgcgcta 300  
 gaatcggact tccttgtgaa aagctatgac cattggaatt tgtcgagagc tttcgatggt 360  
 caatttctac cgcttgata tattatgcac cttaatcgga catccgtgtg acagtcatga 420  
 cca 423

<210> 9747  
 <211> 391  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9747

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 aatgatttat attgtcgctt gattgcagct gcagatattt taccattttt tatatagaaa 120  
 atattcaaca tacatttgtg agggaaaaaga tatgcactct actcacacca gaaaactaat 180  
 cttactttta attttctaca gtatatatac taattaacat ttttaattta tgaatctcta 240

tatttacttt ctcttctatc gtactttaat cttatttctt tcttctatat tcttttccat 300  
 ctcattacat aatacatcta tcattatttt ttctattatt tccgacagag tcagatctta 360  
 tgttgtctgt cgatggctgg ttcttattta c 391

<210> 9748  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9748

cttaagcacc gcggtgcag cttatgcagt caatttagat tcattctgga gaggatcttt 60  
 tccaggcata nttgtgcaaa atctcttgaa ctaggaagat gttgtccatc atctttctgt 120  
 ttttaagtga ggcagtttga gtttccccaa taatagtctc aagcactggg gctatgcggt 180  
 tggctagaat tttagacaca atcttgtata acaaattata gcaagatatg ggtctaaaat 240  
 ggttaacctg ggaggcctga tcattgcttag gaataagcac aataatagca tggttgattt 300  
 gctttaaaaa ttttccagtt gtaaagaatt cattaaccgc cgcaaagata tcataccaaa 360  
 tgatatt 391

<210> 9749  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<400> 9749

ttcacttga tgtccgatc aggcgcacatc tatatctata cgctcgaaat tgaacaacgg 60  
 aagctctcga gaaattgaaa tggtcataac ttttactca gatgtccgat tcaggcgcac 120  
 catatatcga gacgctcgaa attgaacaat ggaagctccc aagaaattca aatggtcata 180  
 agttatcaca cgaagggtcg ttttaggagc atcacatc gagacgctcg atattgaaca 240  
 acggaagctc tcgagaaatt gaaatggta taacctttca ctcgatgtc tgattcaggg 300  
 gcatcatata tcgagacggt caagattgaa caacggaagc tctcgagaaa tagaaatggg 360  
 cataacttat cactcaaatg tctgattcac 390

<210> 9750  
 <211> 338

<212> DNA  
<213> Glycine max

<400> 9750

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agcttccagt tctcaatttc gagcgttttt atatattatg cgccttaatc ggacctcctt 60
gtgataattt atgaccattt gaattttctcg agagctccca ttgttcaatt tcgagcgtct 120
cgatatatga tgcgcctgaa tcggacctcc gtgtgataat ttatgaccat ttgtatttct 180
cgagagattt cgttgtttta ttctgagcgt ctccatatat aatgtgcttg aataggacct 240
tcgtgtgaaa agttataact atttgaattt ctcgagatct tccttgggta aatttccggc 300
gttttcatat gtgatgtgct tgaatcggac tctctgtg 338
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<210> 9751  
<211> 389  
<212> DNA  
<213> Glycine max

<400> 9751

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agcttaagct ccttcaactg cacaaggctc ttaatatattg aagagtatcc ttgtggaacc 60
ttcacccgat gaagacactg acaaaaactt atctttctct ttttggaaaa agtatggcaa 120
gctgggggca agtaaaattt cttcccatca gaccttggat gcaactatga tcgtatcccc 180
atatcagcta gattttgacg ggtattcaag ccattccttcg tcttgccatg aatgttaagg 240
agcatcccaa tcacactgtc acaaacattt ttctccaaat gcataacatc aatacaatgt 300
ctaactgtct gatcagacca gtacggaaga taaaagaaaa tggacctctt ctcccatatg 360
caactcttac ttttatacct tttttgggt 389
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<210> 9752  
<211> 418  
<212> DNA  
<213> Glycine max

<400> 9752

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agcttgggct aagcaagttt gcccgcataag cccaaggcac ttgtgatttt ttgtatgtct 60
tgccatgcac taagcgtgcc ctgtcacgtt aagcgcaatt tactctttgt ttctatagtt 120
gttgaattg ggcttagcga gccttctcgc taaaccattt gatgcaatcc taccctcgaa 180
gggcattgga tagaagactc caagtagatt gggccagaga tccaagggaa ggccttaggg 240
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ttctcatgag ccttagggta gattttaagc ccatgggcta agtatgagcc cacttatctt 300  
 tgtaaatatt agaataggtt tttccttcgt ttgggcctta tattttggcc attctagtag 360  
 tatagggttt tagccttgta tttcggagca ttttgagtag tctttgtagt aaggactt 418

<210> 9753  
 <211> 326  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9753

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 taaaaagtta ttgtgtttg aatntgttca gagcttcaac attcaatttc gagcttttcg 120  
 atatattacg ggacacaatc agacatccga gtaaaaagtt attctcgttt gaatttgctc 180  
 agggcttcgg taatccattt cgagcgtctc gatatattac gggactcaat cagacatccg 240  
 agtaaaaagt tattgtcggt tgaatttgct cagagcttct acattcacat tcgagctttt 300  
 cgatatatta cggactcaat cagaca 326

<210> 9754  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9754

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 gggcctatgc aagttgaaag ccttgaggga aagaggtagt cctatgttgt tgtggatgat 120  
 ttctocagat ttacctgggt aaactttatc agagagaaat cagaaacctt tgaagtattc 180  
 aaagagtga gtctaagact tcaaagagag aaagactgtg tcatcaagag aatcaggagt 240  
 gaccatggca gagaatttga aaacagcagg ttcactgaat tctgcacatc tgaaggcatc 300  
 actcatgagt tctctgcagc cattacacca caacagaatg ggatagttga gaggaaaaac 360  
 aggaccttgc aagaggctgc tcgggtcatg cttcatg 397

<210> 9755  
 <211> 381

<212> DNA  
<213> Glycine max

<400> 9755

gcttcaacat tcaagtttga gcgtctcgat atatgtcgag acctttatcag acatccgagt 60  
aaaaagttat ttctgtttta attggtctcag aggttcaaca ttcaatttcg agcgtctcgc 120  
tatattacgg gactcaatct aacatccgag taaaaagtta ttgtcgtttg aattggctca 180  
gugcttcaac attcaatttt gagcgtctcg atatatgacg agactcaatc agacatccgc 240  
gtaaaaagtt attgtcgttt gaattgtctc agaggttaaa cattcaattt cgagcgtctc 300  
gatattgtac gggactcaat cagacatccg agtaaaaagc tattgtcgtt tgaattggct 360  
cagagattca acattcaatt t 381

<210> 9756  
<211> 272  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9756

agcttctcga tatattatgt ggctgattcg gacttccgtt agattattta tgaccatttg 60  
aatttctcgg gagctntggt tgttcaattc cgagcgtctc gatataattat gccctgaat 120  
cggactttcg tgtgacaagt gatgaccatt tgaatttcac gagagcattc gttgttcaat 180  
tccgagcacc tcgatataatt atgcgcctga atcggacttc cgtgtgacaa gttatgacca 240  
ttcgaatttc tccagagctt ccggctttaa at 272

<210> 9757  
<211> 412  
<212> DNA  
<213> Glycine max

<400> 9757

actaagcttc caaagaaagt ggcaaaagaa tattcaaaat aattttcttt cataccatag 60  
ataaatagta ataaataaaa gaagtttaag ggaagagaga aatgcaaact tgatttatac 120  
tggttcggcc acttcccgtg cctacgtaca gtctaaaagc aacccacttg agattttcca 180  
ctctcttgta aaatcctttt acaagttctg aacacacaag gacaatcctt cctttgtatg 240

cagaattcct ttacaacaag agaccatcgg actattaatc ccttttcaga agtgagaaga 300  
 agagaagaag aaatctctct tgaaagagat agattgtaca atgaagatca atcacaaattc 360  
 cttattgcat atgcaagtgt ttgaccaacg aatcttcaag aggataagac at 412

<210> 9758  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<400> 9758

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 ttcatagtg ggcttttctt ctgtgtccag catcttggga tgttcccagc ctttgatgac 120  
 aactttccag gttctgctat ccagtgattt gaggaaggcc accatccttg ctttccagta 180  
 ttcatagttg gtcccatcca gaattggtgg tctgttcact ggtccttctt ctttctccat 240  
 gttcatcaga atttatctcc ctgatctca ctcagtgatt tagagtgtcc gctctgatac 300  
 caattgaaat tctgatacca atgccagatg tcgtacagga tgtcacgaca tcacgcttca 360  
 gaacatgcag atttatattg agtgt 385

<210> 9759  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<400> 9759

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 ttgttcaatt tcgatctctt cgacatatta tgcacccgaa tcggacatct gtgtgaaaag 120  
 tcatgatcat ttgaatttct cgagagtttc cgatgtttaa ttccgagcgt atcgatatat 180  
 tataaccctg aatcggacct cagtgtgaaa agttatgacc atttgaattt gacgagagct 240  
 tccgttggtc aatttcgaat atcactgtat gtgatgcgcc taaatcggac attcgagtta 300  
 aatgttatga ccatttgaat ttctcaagag cttccgttgt tcaattctga gcgtctcgat 360  
 atgtgatttg cctgaatcgg acatccgtgt gaaaagttat gaccatttga atctctcaag 420  
 a 421

<210> 9760

<211> 375  
 <212> DNA  
 <213> Glycine max

<400> 9760

tgttatggaa gtcaagagca tgaagtggt ccaattttat taactgggtca atacgttcta 60  
 gagcagggtg atgacatcaa tacgatattt ggaaagaccc ataagaagga aaaaaagtaa 120  
 aacttgcata ctgaagaaga ggtcgatatt gtttgatctt ccatattggt ccgatctaga 180  
 tgtcagacat tgtattgatg ttatgcattg ggagaaaaat gtgtatgata gtgtcatcga 240  
 catgtttctt aacattcaag gaaagacaaa ggatgatttg aataatcgtc aagatctaga 300  
 tgagatgagt atatgagacc agttatgtac ttggtctaat ggtgagaaaa tataactggc 360  
 tccaacttga cttac 375

<210> 9761  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9761

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 gggtttgga atcttagaga aatgttgtat gagctttcta tagaaaccag catgccccaa 120  
 atgtttttac tcctttcatg tctcaagggt gtgggagctt ttcaattact tctatcttgg 180  
 cttgatatac ttcaatacca cttgctgaaa ttttatgctc gagcactata ccttcgggta 240  
 ccttgtagtg caatttttgc caattaagca caaggttctt ttcaattcat ctttctagga 300  
 ctctntccaa gtttttgagg catgacatga acaatgatcc gattatagag aaataatcca 360  
 taaatacctc tactcattnt tataccatgt tagaacagat gacattcata cat 413

<210> 9762  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<400> 9762

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 gtgatcatct ctttctccgt cattggaggt gccacttgag ctgccagggtc tctccacctt 120

tgggcgtatt ctttgaaaga tttgtgcccc tttttgcaca tggtctatag ttgcattcta 180  
 tccggagcca tatcagaatt gtattgatac tgcccaacga aggcaaccat taggtcttcc 240  
 caagaatgga ctcggaaggt ttccaagtta gtgtaccagg taacagctac cccagtaaga 300  
 ctttcttgga agaaatgtat cagcagttcc tcgtcttttg cgtatgcccc catcttccga 360  
 caatacatct ttagatggtt cttgggg 387

<210> 9763  
 <211> 370  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 9763

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 tggccaagct atgagacata ataccagtt ttttgtggaa tattttgcat tggatctttt 120  
 aattaatagt gatggtaagt tgttgcagaa aacatcttgc tttcacttaa tttgcaatta 180  
 attaacctaa tgaagtctta gccttcattg gtcttgatga gtaaatttcc catgtgcttc 240  
 acatcacttg ttacaaatgt gttatctgtt tcaatggtaa tttctttatt aaacaagcat 300  
 tcaatgggtg aaattttntc ttttgtcctg gtgatgggaa agttaactaa tttctttcta 360  
 tattggatat 370

<210> 9764  
 <211> 413  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 9764

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 accagtagca aagattgttt tcaaaaagct ttcaactgaa ttacaacgt tccaattgat 120  
 ttcaaaatgg tgtaattgat tacaatgatt tggtaatcga ttaccagtgt gtttaaactg 180  
 tgaaattcaa attcaaagt gaagagtcac atcctttcac aaaaatgctt tgtgtaattg 240  
 attacaatga ttggtaatc gattaccagt gataagtttt gaacaaaaat caaagatgt 300  
 aactcttcca atggttttca agtttttcta aaggttataa ctcttcta at ggttttcttg 360

accagacatg aagagtttat aaaagtaaga ccttaacttg catntacaa cac 413

<210> 9765  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<400> 9765

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 aacatgaaat tggacatcac cataatcaaa tccatgtgtc ccacactcaa agataagctt 120  
 acaaaataat tataattaaa acaatttaag aaacatcaat taactatgac ataaactcta 180  
 tcattcttag atcatggtat ttgaaagtaa ataaaaccaa taacatccag ctcacataag 240  
 ccaaacatct catattcaac tatcatgaaa caattcaaga atcaacatca tgcacaaact 300  
 atcaagcatt atcaacatga gtatcatcaat catcatcaac atgaacacca aacatcaaca 360  
 ccaacgacag actctactcc atggatattt acaccacatg aggaattaac caaagtacat 420  
 ccctta 426

<210> 9766  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9766

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 aagaaactct tgggcaaaca cgtgcaaacc cattaagagt ttctccatgg acttaaatgt 180  
 taatatcctt ctcttcaaga gagaattctt cttcttttct tctcattcaa agagattgat 240  
 taagggactg aggatctctt aagttgtaag gattactgaa cacaagggat gggttgtccc 300  
 tgtgtgtgtc agactttgta aacggatttt tacaaaggga gtggaaaatt tcaagtgggt 360  
 tacttgagta ctggacgc 378

<210> 9767  
 <211> 379  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9767

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tatctgttac aataagtatg tagtcaagaa acatcacttc aaccattaga cccattctag 120  
tgaagacaat agttaaggtt ctaagggtgc tagacatcat ggttgcatgg tgtatgtaaa 180  
catctcactc atgtggatct tcaacacttg accaatgtta ggtggcattt taccacctgg 240  
tatagtggct tctgttcgca atgttacagt gtgcattact tgcatactg ttagtgtgaa 300  
cattccatga gttgtttctc cagacaacat tattccatca gaaccttctc gaacaacaat 360  
tagtatatct gataacctt 379

<210> 9768

<211> 204

<212> DNA

<213> Glycine max

<400> 9768

caccacttct tgttgaagat gagtctagaa gaagcttacc accataggaa gccatggata 60  
acaccttgaa ggtataacaa gatgattgaa gggtagaggaa gagaaaaaca tgaatttag 120  
tgccctttaa gagaactgaa tttttagtg taattttcaa atgatcgaag ctgaaaaaat 180  
gcacactgtt cacttccggc agtg 204

<210> 9769

<211> 450

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9769

gagaccacct gcaggcacgc nagcttggaa cgaataaaact gaaaaagttt tcgaggttag 60  
cttttggtga agatgtcggc gagttgaaga tgggaaggaa cgaattgagt aatgagcctt 120  
ttggagagaa ctaactcgtg aacaaagtgg tagtcaatat caacatgatt ggcacgcttg 180  
tgagcaaccg gattctggga aagaaatgta gctcttttgt tatcaciaaag aagagtaggg 240  
ggagcagagc aaacatgcag attgcgcagc aaatgagtga accacattag cttatctgct 300

gtatttgcca tagcccaata ttcagattca gagctggaac gagcaatagt aggctacttt 360  
 ttagcactcc aggacacaag attaccttcc aagaatatcg agtagccata ggtggagtga 420  
 cgcgtctcaa cacaatgagc ccattcgaca 480

<210> 9770  
 <211> 222  
 <212> DNA  
 <213> Glycine max

<400> 9770

ctgattgtag tggaaatggag aaggaaaaag atgaatggag acaccacttc aagtagaaga 60  
 tgagtctaga agaagcttac caccatagga agccatggat aagagcttga agtagaaga 120  
 agatgaatga agggagagga agagaaaaac atgaaattta gtgcctctaa agagatctga 180  
 atttttagt ggtaattttc aatgaatcaa gttgaaaaaa tg 222

<210> 9771  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<400> 9771

aaacattaaa tttcgagagt ctcggtatat tacggtattc aatcagacat ccgagtaaaa 60  
 agttattgtc gtttgagtag gctcataggt tcaacattca atttctagcc tcacgatata 120  
 ttaccggact gaatcggaca tccgagtaaa aagttattgt cgtttgaatt ggctcatagg 180  
 ttcaacattc aatttcgagc ggctcgatat attacgggac tcagtcagac aaccgagtaa 240  
 aaagttattg tcgtttgaat tggctcatag gtccaacatt caatttcgag ccgctcgata 300  
 tattatggga ctcaatcaga catccgagta acaagttatt gtccgttgaa ttggctcata 360  
 ggttcaacat ttcattgccg agcgt 385

<210> 9772  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9772

agctntaagc caattcatac gacaattact ctttattctg atgtcngann gagtcccga 60



atataacgaa acgctcgaaa ttgaatgttt aacctatgag ccaattctaa cgataataac 120  
 tttttactcg gatgtccgat tgagtctcgt aatatatcga cacgctcgaa attgaatggt 180  
 gaagctctaa gcctattcaa acaacaataa cgttttactc ggatgtccga ttcaatgacg 240  
 taatatatcg ggacgctcga aattgaatgt tgaacctgtg agccaattca aacgacaata 300  
 actttttact cggatgtctg attgagtcgc gcaatatatc gagacgctcg aatatgaatg 360  
 gtgaacctct gagccattca aacgaccata acttttactc ggatgtcgat g 411

<210> 9773  
 <211> 272  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9773

agcttgtcaa gggaacatctt atgcattatt tcatagatga gagctttctt gcgtccttcc 60  
 aaacagaatc aaagaagtat gacaacatta acatgagaag ttctactgat acactattag 120  
 aaaatatgtt ntctacatcg gttatttatg actttcaaca tcggtttttc aaccgatgtt 180  
 gaaagtaccg acgttgatag tattatcggt aacatcggtt ttgaanaac cgatgttaac 240  
 gtaaaattac caacatcggt tatattaata ac 272

<210> 9774  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9774

cagcttccac gtatatgacc tacatgatca catgataact ttttaatttc ttacataag 60  
 taaaggggga tcatttccaa tcatgatata ctacagaaat ggaattttta ccattcttct 120  
 gtaacctcca gatgcatgtt tcttcttcaa gacttcaata aagtcctatg cataaaggta 180  
 tggcatgttt ggcctcccta caaaatacaa atcaaatagg aaatgactaa gttataatgt 240  
 ctttatctaa tatgaacata gttctggatt gatcattttt acacccttag ataattttgt 300  
 tttatacaac tatgttcaca tattaacta tacctccatg aaccacagaa agaaaaaagt 360  
 ctttaggatg ataattntta ttttttttac ttaaagtc 398

<210> 9775  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9775

```

agcttcaaca tcagaccact tccagtgttc tggattttatc ttcacatgga cttgatgggg 60
cctatgcaag ttgaaagcct tggaggaaaag aggtatgcct atgttggtgt ggatgatttc 120
tccagattta cctgngtcaa ctctatcaga gagaaatcag acacctttga agtattcaaa 180
gagttgagtc taagacttca aagagaaaaa gactgtgtca tcaagagaat taggagtgac 240
catggcagag agtttgaaaa cagcaagttt actgaattct gcacatctga aggcatcact 300
catgagttct ctgcagccat tacaccacaa caaaatggca tatgtgaaag gaaaaacagg 360
actttgcaag aagctgctan ggtcatgctt catgccaaag aacttcctta taatctctgg 420
gctg 424

```

<210> 9776  
 <211> 340  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9776

```

nttctttgtg ggttgatggg ttctgtcgcg cacaatgtca tgttcactgg ctgacatact 60
ctcaattagc tcagttgctt cttccgggggt cttcagcttt atttttcccc ttgcataagc 120
atctatcagt tgcttggtt ggggtctcaa cccatatatg aacatattca attgaattgg 180
ctcaagaaac ccatgagtgt gagttcttct caataaacct ctgaacctct ccaatgcttc 240
actcagagat tcatcacgga attgatgaaa tgagaagata gcagctgttc ctctcaaagt 300
cttggactct gggaagtatt tctttagaaa ctttttaaca 340

```

<210> 9777  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<400> 9777

taccactata gtctatacaa agaaattatt gtgatttttt tacgctttac taaggataaa 60  
 ggggaagtaa taatttttagg attttgagat aattatcatt ccottatgtg atgagtgatt 120  
 ctagaatgag aagtgtttat tgggcttggc tcttccaaag tgaataaggg taaagtaatt 180  
 aatttttagtc attgatgaaa aaaatttagcg gttgatattt caactcattc ttgatttggt 240  
 atgcaagtgc atgtaataat gactattaat tttctcatta atgattgaga atatttaatt 300  
 tactttctag agtgagttgc tcacgaggag ctaaatcttt attgaaatgt tttcttctgt 360  
 ttctgtgtct aacagcaact ttctcg 386

<210> 9778  
 <211> 406  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9778

agcttgtcct tcacggctta catgatttca ctggcatggt ctgcagcatt gcctacaatt 60  
 ggaagcaaga tgacagaaat aaaagccact gacatattca atgactcaga tgctccctgc 120  
 aagagaccag aaacacaata tgtctatgaa tgaacttatg acgcagtgtt tatggacaag 180  
 aacaagaata ggaatattag aagcttttagt tgtacaataa tagaaattaa tgatcaagaa 240  
 attctgaaaa tgatatagct atacctgtat ggcgtctaca aggtatccag acaatataga 300  
 taccatgct gtcaagatag caagccagat tattgcctcc cattgagtta attcaagatc 360  
 ttctccaca tcagaattnt caccattctc tctccctac attatg 406

<210> 9779  
 <211> 389  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9779

ntntgagctg tatcaatcaa ctctattgac aagtttgctc ttgcatgaa tgtaatgatg 60  
 aaattttaat gataaatgac gcagttataa aatggtggtt agaaaatag tgatagagga 120  
 ggagatggaa tgcatgtttg ttacttcaat tgaatcataa atgaatgaga ggcttacatc 180  
 ataaagccta acaattgat attcatcaat taagatcaaa atttaacca ataattaaac 240

aatgttaacc cacaaaattc caactagaac aagaaacttc agttattacc tctatttggt 300  
 caccgacatt aatcaggaga gcatcaggga ttattggaac tttaaaccac tgatcatctt 360  
 tgaggacttg gaggccttct acttcttttg 389

<210> 9780  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<400> 9780  
 tataatatat cgatacgtc gaaattaatc atcggatact ctcatgaaat gttaaattggc 60  
 ataagttttc acccggatgt ccaattcggg cgcataatat gtcaagagtc tcgaaattga 120  
 acaacggaag ctcttgagaa ataaaaatggt gataactctt tacaccgatg ttcgatttat 180  
 gcgaatcacg tatcgagacg ctcaagaattg aacaacggaa gctcttgaga aaatcaaatg 240  
 gtcataaaat ttcacaccga tgtccaaatt agggcgcata aatatagtgc gtcgaaaat 300  
 gacaacggga gctttcgtca aattcaaatg gtcataattt ttcacactgg agtcggattc 360  
 aggctataat atatcaa 377

<210> 9781  
 <211> 352  
 <212> DNA  
 <213> Glycine max

<400> 9781  
 agcttgaatc ggacattcgt gagaattgtt atgactatctt gaattttctca agatcttccg 60  
 ttgttcaatt tcgaccttct cgacatatta tgcgcccga tccggacatcc gtgtgaaaag 120  
 ttatgactat ttgaatttcc tgagagtctt cgatgtttta tttcgaacgt atcgatatat 180  
 tataagcttg aatcggacat ccgcgtgaaa agttataacc atttgaattt ctcaagagct 240  
 tccgttgttc aatatcgaa tttctgatat gtgatttgcc tgaatcggac atccgtgtga 300  
 aaagttatac cactgaatt tttcaagagc ttccggtgtt caattttgag cg 352

<210> 9782  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<400> 9782

gcttgaccaa cggaatgcaa atgatttact cagttctatt aggcaacact cttcagcttt 60  
tggggatgga ctccagcgtt tggtcatta ctttgccaat ggccttgaga caagggtggc 120  
tgctgggacc ccatacaca tgccctaga aggaacaact tccgctgata tgttgaaagc 180  
ttacaaacta tatgttacat cctctccttt gcagagggtg acaaattatt tggcaaccca 240  
tacaattgtt agtcttgttg aaaatgaggg cagtgttcatt attattgatt ttggcatttg 300  
ctatggtttt cagtggccat gccttatcaa gaagctctca gaaaggcatg gtggctctcc 360  
gaggcttcgt ataacaggaa ttgaacttcc tcagccggga tttcggcctg cag 413

<210> 9783

<211> 438

<212> DNA

<213> Glycine max

<400> 9783

agcttataat atatcgaggc gctcgatttt gaacatcggg agctcttgag aaattcaaatt 60  
ggtcataact tttaactcgg agttcaattc atgcgcata catatagaga cgctaaaaaa 120  
tgaacaacgg aagctctcca gaagttaaaa tggtcataag ttttcacact gatgtccgat 180  
tcaggcttat attatatcga gacgctcaaa attgaacaac gaaagctctt gagaaattca 240  
aatgggtcata actttttaca ctgagggtccg attcaggctt ataatatatc aagtcgctcg 300  
aaattaaaca tcggaagctc tcgagaaatt caaatgggtc taacttttca cacggatgtc 360  
cgattcgggc gcatattatg tcgagaggct cgaaactcaa caacggaagc tatcgagaaa 420  
ttcaaattggt cataactt 438

<210> 9784

<211> 401

<212> DNA

<213> Glycine max

<400> 9784

agctctgata acattcatal gacaattact tattactcgg atgtctgatt cagtccegta 60  
atatatcgag acgctcgaaa tgggaattttg aagctctgag caaattcaaa cgacaatcac 120  
tttttactca gatgtctgat tgagtaccgc aatatgtcga gacgctcaat attgaatact 180

gaagctctga gcaaattcaa acgacaataa cttgtcactt agatgtctga ttgagtcctg 240  
 taatataatcg agttgctcga aattgaagac cgaagctctg agcaaatcca aacaacaata 300  
 acgttttact cggatgtctg attgagctct gtaatatata gagacgctca atatggaata 360  
 ccgaagctct gagcaaatcc aaacgacaat aacttcttta c 401

<210> 9785  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> 9785

tgaaggaaaa ctggatgcat tgggttaactt ggtaatttaa ctggccttga atcagaaatc 60  
 tatacctggt gcaagggttg tgggtttgtgc tctctgctg accaccatac agacctttgc 120  
 ccttcacatg agcaacctgg agcgattgag cagcctgaag cttatgctgc aaatatttac 180  
 aatagacctc ctcaacctca gcagcaaaat caaccacagc agaaaaatta tgacctctcc 240  
 agcaacagat acaacctctg atggaggaat caccctaacc tcagatggtc cagccctcag 300  
 caacaacaac agcagcctgc ttcttctctc caaaatgctg ctggcccaag cagaccatac 360  
 attcctccac caatccaaca acagcaacaa cc 392

<210> 9786  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9786

ntattcccca tttaatgtca ttttataatt aagcatttta caatttgaat tatcttaatg 60  
 ttctaaccgt gcttattatt tacaattttt atcctcagat atttacacta ttgaattcca 120  
 aaaaaagagg tttaacctcat gctcacattc ttttgttctt acatccttcc aacaagtatc 180  
 caactcctaa agatacagat aaaattgtct caactaagct accagatcaa aatagagatc 240  
 caattttaca tgagtgcacg aagagtcata tgatacacgg tccatgtaga ccagctaata 300  
 gacattcacc atgcaagaaa gatggtaaat gttctaaatt tttccataaa aggttccaat 360  
 aaaaaaacat ttgttgacca ggacaattac cctat 395

<210> 9787  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<400> 9787

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agcttgtctt catggggaat agagtgtaaa ctccagtgga agcagtcagg acttateggt 60
taaaacttga cattagacat catttagatt tactgggaac tttttatggt cctagtttat 120
ctaggaattt agtttcatta tctaaacttg atgttactag atactctttt aattttggta 180
atggatgttt ctgtttattt aagcataatc atctcattgg tactggtggt ctttgtgatg 240
gcttatataa attgaaatca gatggtttgt atgctgaaac ctctttaact ctgcatcata 300
atcttggcac taaatgtagt ttagtgaatg aacgatctac tttcttggg cataaacgtt 360
taggtcacat ttcaagagaa aggatggaaa gattaataaa gaatgaaatt ctactgac 420
t 421
```

<210> 9788  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9788

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agctntgttc caaacacttc ttgtgtctg tttcttctc gttttttatc acaagattgc 60
cactgtccaa aagcactact acaggattct gtgcttgttt gtgagagttg ttggtgtacc 120
agacaagata cgcatttttg gtgagaacaa gattgcctgt gttgttgagt gttatgatac 180
ccgaggaatc attgatggg ttggccttat tagcaacca aacaactgtc tggattggga 240
tgttcttgta ccaaataccc acataacgtt tatgggaata acctggtgat gtgccatcat 300
tttcttctat tttctaaacc ctttttgac cattttaatt attgattgat ctttaattgtc 360
aatataatg gcagttntat tatttgggcc cattaagcta atttgatggt nttaatct 418
```

<210> 9789  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<400> 9789

gacaacaggg agtgaagatt gctgaaaacc ctagccttgc aacatgtcct atggaagtag 60  
 acacggagat ggacaagaaa atccgcagta tggtagtag ctttttgaaa gaagcctctg 120  
 tgctgaagc tgatgaagat gttccaacat cttccacccc gaatgtttct atgcctgatg 180  
 ttgagaaaga tgttccaaca tttccggcc catatgatga agtactgtct tccccagca 240  
 aagagagatc aacagaggaa gatgatcaag ccgcagagga gaccctgca ccaagggcac 300  
 cagaacctgc tccaggtgat ctcatgtact tagaagaagt cgaatctgat gaagaacca 360  
 ttgccaacag gttggcacct ggcattgcgg aaagacttca aaacagaaa 409

<210> 9790  
 <211> 313  
 <212> DNA  
 <213> Glycine max

<400> 9790

tcacggtaaa tatagacatc ccattcctag gctagacgat atgttgatg aattgcatgg 60  
 agcctgtgtt ttctctaaaa ttgatttgaa aggtgggtac catcaatta ggattagaga 120  
 gggggatgaa tgaaaaacaa ctttcaaac taagtatggg ctgtatgaat cgcttgttat 180  
 gccctttgtg ctaaccaatg ctctaacac ttccataaga ttaatgaacc atgtgttaag 240  
 ggaatttcta ggaaaatttg ttgtgggtat ttgatgata tcttgattta cagcaaattc 300  
 catgatgaac atc 313

<210> 9791  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<400> 9791

gtgtcttatg aatccccctg tgcttatgcc accagtacct ggaaggcctc tcattttata 60  
 catgacaatc ttagatgagt caatgggtg tatgctgggg caacatgacg aatctggaaa 120  
 gaaagagcgc gctgtttact acctgagtaa gaagttcacg aactgtgaaa tgaattactc 180  
 attgctcgaa agaactgtgt gtgctttagt atgggcatcc catgcctaa ggcagtacat 240  
 gctgagccat actacctggt tgatatcaa gatggaccg gttaagtaca tctttgaaaa 300  
 gccagctctc acgggacgaa tcgcccgtg gcaagtcctg ctatccaagt ttgatatagt 360



ttacgtcacc caaaaggcga taaaaggaag cgccttagca gattatt

407

<210> 9792  
<211> 352  
<212> DNA  
<213> Glycine max

<400> 9792

tttccctcct tcaaggaatc ttcttgaagc cctctcacat acgccacacc atacttggca 60  
ttcatcagag ggtcttcccc tgcagtctct tgccctctcc cccaccgtgg atccctgaaa 120  
acgtttatgt tcggagccca gaacgtcatc cccgtcgctt gccccgcatt gtacaccgcc 180  
ctcgcttccct tcccaatagt cttcagcaac aatgcagtaa cataacacca acatgtcaat 240  
aatgtaattc gataaagtcc cacaccgag taataaagag aagatgaagt gtatataaag 300  
ctttgagggtg ttggatgtta gtgattatgc aactgacctt gctgatttgg ta 352

<210> 9793  
<211> 548  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9793

agcttgtgct aagaatgtca tgatcctttt catcatattt taagaaaatt gaatgtcatg 60  
atccatcact tctctgcata tatatttagt attaagatgt gtaccaacaa tcctaaaatg 120  
ttctgtgcag atattttcca ttgaaagaca ctacacaaga ttagagactc cgaaattaat 180  
tttgttttat gccaaattgct attatgcttt gttgtgtctt gctaaatgca tatttaattt 240  
gaagcaactt cattattttt gtgttatctg ttaatggttt aattggataa tagtttacaa 300  
gccaggtaat atataattta gatatatgtg cagagatgta atattgtcat gtaaatTTta 360  
atatttaatt attgttatgt tagagtatgt gcatgcaatt gttttagaga gggctggtga 420  
taagtgaagc tagctcaca acaattcaag atgcagttag ctttataagc taggctcatg 480  
agtcatgatt ngagtctgat ttgaattttt accctgttta gtaaatgagc tgagcttcag 540  
cttttaat 548

<210> 9794

<211> 350  
 <212> DNA  
 <213> Glycine max

<400> 9794

```

agcttaatct catagaaggg aagcggttgt tcaccatgag tcatgggcgt ttatatcaga   60
aaagagtga  gaacgctttt gacaagaagg tacatatgcg ccggtttagc aaaggggact  120
tgggtgtgaa gaaggtctcc caagctctga aagacaacag aggggaagtgg gacccgaact  180
acgaagggcc tttecgctga aaagggcctt ctccggaggg gctctgggtgc tcaccaacat  240
ggatggcgag gagctacctt caccctgaa ctccgatggt ttcaagcgat actacgctta  300
ggatctgggg caattgagga agtcgctgca tgttctttta tttttgggtg          350
  
```

<210> 9795  
 <211> 650  
 <212> DNA  
 <213> Glycine max

<400> 9795

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agcttatata tttatttatt tctatttatt aataaactaa aatagtaatt acattgtatt   60
tttagttttt actatttttt aatacaagta acaaaatatt ctacaaatta agagaaaact  120
attaaaaaaa ttagctaaat ttattaaagt aaaaaggaaa atatacatat aatgcaattt  180
ctattattta taaatagata taaatagttt ttgttatctt ttattgttta atttctacgt  240
ttgaaagtaa aagcattaag ttactgttta tttagttgat tttttaattc ttaactaata  300
atatatttaa ctaattagac attgtacaaa aaaatttgtt tcaaaataaa aattattttt  360
cataattaat ttttaagaaa atggtaaatt ttatatcaat aaaatggaga ataattatga  420
acaagtcacg gatctattta tagcacatat attgataata taaataatga aaaataaaca  480
aacattataa aatattcatt atgattttta cataatccat tttaggtatta tctaattggg  540
aaaltggtga attttttaag gataatataa tattttttta atattttttt aatcaattat  600
ggataatttt taaatattca aaaataattg ggattcaatt aataaaaaaa          650
  
```

<210> 9796  
 <211> 385  
 <212> DNA  
 <213> Glycine max

```
<223>      unsure at all n locations
<400>      9796
```

taatttcctt caccatatga acaattttatt gaaccatgat gtcaaaaatg aaagaggaaa 360

atatatcttc cactgacata tgat 384

<210> 9799  
<211> 503  
<212> DNA  
<213> Glycine max  
<400> 9799

agcttgttgt tcttgatgc atctggtatt ggactcaaca attgctaaga gaattgtctc 60  
aactttgtcaaatgaggaggaa gaactatttt gatgaccata cctcaacctt caagtaggat 120  
gtattgcatg tttcaaaaagg tgtttatgct ttcagaaggg aaccttgtgt attttggaaa 180  
aggatctgaa gctatggaat atttttctag atttggatat gccccaacca cggtcatgaa 240  
ccctcagat ttcttttga atcttgcaaa tggatgttg ttgtctctt attattttaa 300  
aaagtgtgag gtttctttg ttatttatga aactttgtgg acagaagttc aaaatctcat 360  
ttatctatta gtacctacat atatttggat aaattcactt attctatttt tcatgattga 420  
ttaaatctat aaattagatt ataagaatta ctagctttgt gacaagtcac tcatttaagt 480  
tcttttcac tcaatttttc atg 503

<210> 9800  
<211> 430  
<212> DNA  
<213> Glycine max  
<400> 9800

agctttgtat ggtagaaggg gtatgttctc cctatgttgg ttagagcccg gagaaggcct 60  
caccttagga ccagaagtgg tacagcaaac cactgagaaa gttaagttaa ttcaggagag 120  
gatgagagct gttcagagta gccagaaaaag ttatcatgat aagaggagga aagatctgga 180  
attcaagggt ggtgatcatg tattcttgag agtcactccg tggactgggg ttggtcgagc 240  
attgaaatct cgaaaaactca cacctcgtt aattggctct ttccaaattc ttaagagagt 300  
tggccctgtg gcataccaaa ttgcattacc cctgtctctt tctaattctc acaatgtctt 360  
tcatatgtct caactccata agtatatctg ggatccatcc catgtgattt gattggatga 420  
tgggtcaaatg 430

<210> 9801  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<400> 9801

tatgacgatt cgaattttctc tatagcttcc gttgatcaat ttcgagcttc tcgatatgtg 60  
 attagcctga atcggacatc cgtgtgaaaa gttataccag ttgaatttct caagagcttc 120  
 cyttgttcag ttttgagcgt ctcgatatgt gatttgctg aatctgacat ccgtgtgaaa 180  
 ayttagacc atttgaattt ctcaagacct tacgttggtc aatttcgagc ctctcgacat 240  
 attatgcgac cgaatcggac atccgtgtga taagttatgg ccatttgaat ttctcgagag 300  
 tttccgatgt ttaatttcga gcgtatcgat atattataag catgaatcgg acatacgtgt 360  
 gaaaagctat gaccat 376

<210> 9802  
 <211> 449  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9802

agcttgtaga attcacccca attccaattg catatgttga cttaactcccc tatctgctcg 60  
 ataatgcaat ggaagttata agcccaacaa agattttctca accttctttt cctagaggat 120  
 acaaccccaa cgtgacatgt gcttatcatg ggggagttcc ggggcattcc attgagcatt 180  
 gtatgaccct gaaacataag gtgcaaagtc tgattgatgc aggcctggtg agattcgagg 240  
 aggaaaatca ctctgggagtt ttgatgtcgt tgtgatgcaa tctaccccc caagggcatt 300  
 ggataaaaga ctccaagaag attgggccaa agatgcaaga gaaggcccta gggttctcat 360  
 gagccttang gtagatttcg ggcccatggg ctaagtatga gcccacttat ctttgtacat 420  
 attagattaa gatttcatta aattgggcc 449

<210> 9803  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9803

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acttaccacc ctcttattga tggccagact aaacactcca ttcagtcgct gaaggatctt 60
ttgagggcgt gtgtcttaga acaaaaggga agttgggaga gttttctgcc attgatagag 120
tttagctata acaatagttt tcattctacc attggaatgg ctccctatta agccctgtat 180
gatagaagat gtangacact cctgtgttgg ctagaacctg gagacaacct caccttagga 240
cctaaagtgg tacaacaaac cactaagaag gtcaagttaa tccaagagag gataaggact 300
actcagagta ggcagaagag ttatcatgac aagaggagga aagacctgaa attcgagggt 360
ggtgatcatg tattcttggg agtcacttcg tggactgggg tt 402
```

<210> 9804  
 <211> 487  
 <212> DNA  
 <213> Glycine max

<400> 9804

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agctttttat gaagtttgaa tgtttttttt aaaaagatgt aatcgattac catctttatg 60
tcctcgatta ctagtaacgg aattttttgaa attcaaatg aaaagacatg acttctcatt 120
aaataaatgt gtaatcgatt accaaaaatc tgtaattgat taccaatgag gaaatttcaa 180
cgataactct gaaaagtcac atttcttcat gagttttttg aaaagccacc aaaggcctat 240
aaatatgtga cttggcttta aaaaatcttc agagtttttc ggaacctcat tgtcttatte 300
tctcaaaaac aaaaatttgg ccaaacactt gcgaatcaat taagggatte ttattagttc 360
ttcaaatggg attattcttc tctaaaaaga gagaaaaaat tgtgtacatt aaaaagtaaa 420
actgttgttg agatgaagaa gctgtgaaat ctcttgattt gggagttttt ttgaacacaa 480
aggaaag 487
```

<210> 9805  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9805

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ntggccaatt ctgccaantn naggtcaaat tgagctttta tggtagaacc ttgacattg 60
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aataattgga ctgcgagttt gggcttttgt tttctgtaat tagtttaatt aggtagttag 120  
gtaggtagtt aggtagttag ttagttattt actaacactc tatatattag tgttagttag 180  
ttagtgactt cacttgaact tcattttgta caaaagtact tgtgtaagct gatgcaatcc 240  
tcctaaagg gaccagtcac taagtgaata tttgatgtgt gtgttgagaa ataaatttaa 300  
ttgaattggt agaagccgta tccaattaaa ttttagaggg ggaggtgagc atttacttgc 360  
tacaccccat tgccacatca tatagtcaca ctntgtgcat gtccttcacg ctttacatgc 420  
ctcatgacac ct 482

<210> 9806  
<211> 402  
<212> DNA  
<213> Glycine max  
<400> 9806

agcttccccg atccgtactt ggaaggatct gattattgct ttcctaaggc aatatcagta 60  
taattccgat atggctcccg atcgactca gctacaaaat atgttcaaga aggaagatga 120  
gacctttaaa gaatacgcgc agcgatggag agacctggca gcacaagtgg cacctcccat 180  
ggtcgaaagg gagatgatca ccatgatggt agacaccttg ccagtatattg atgcaatcct 240  
accccgtaag ggcattggat agaaaactcc aagtagattg ggccaaagat gcaagagaag 300  
gccctagggg tcttatgagc cttagggtag atttcgggcc catgggctaa gtacgagccc 360  
acttatcttt gtaaataatta aattaagggt tcattatattt tg 402

<210> 9807  
<211> 459  
<212> DNA  
<213> Glycine max  
<400> 9807

agcttgctcg tcttgctgat atttatcatg ctgacttttc tgatgatgac cgaggaacaa 60  
ttagggatca acttgaaact tatgtgcttc aagtgagaag aaatgcttct ttttccactt 120  
gtgaagatgt tcaaagtttg gctatgaaga tggttcaaac tgagaaacat ttgggtatttc 180  
cattggttta taaacttatt gagctagctt tgatattgcc ggtgtcgaca acatccgttg 240  
aaagagcttt ttcagcaatg aagattatca agtctaaatt gcgcaataag atcaacgatg 300

tgtggttcaa tgacttgatg gtatgttaca ccgagcggga gatattcaag tcacttgatg 360  
 atattgatat tattcgaaca tctaccgcaa agaagtctcg gaaaagacac ttgcctcgta 420  
 attttattta accccctatt ggaaggataa tgtaaatct 459

<210> 9808  
 <211> 321  
 <212> DNA  
 <213> Glycine max

<400> 9808  
 attgagagga aaaatatatg ttatgtctaa caagccaaca aagggagaaa gaaggttgtc 60  
 ttctgaacccg gagattgggt ttgggtgcac atgagaaaag aaaggtttcc ggaacaaagg 120  
 aatcaaagc ttcaaccaag gggagatgga ccatttcaag tgcttgaaag aatcaatgac 180  
 aatgcttaca aagttgagct gcccggtgag tataatgtta gtctcacctt caatgtctct 240  
 gatttatctc tttttgatgc agatggagaa tccgatttga ggacaaatcc ttctcaagag 300  
 ggagagaatg atgaggacat g 321

<210> 9809  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<400> 9809  
 tgttccaaat gttttttaa tggtgtgaat tgattacaat atattggtaa tcgattacca 60  
 gtgtatctga acgttgaaat tcaaattcaa ttgtgaagag tcacatcttt tcataaaatg 120  
 ctttgtgtaa ttgattaca gggttatgga atcgattacc agtgacaagt tctgaataaa 180  
 aagtcaagag atgtaactct tccaatggtt ttctcaagat tttctcaagg ttataactct 240  
 tctaattggtt ttcttgacca gacatgaaga gtctataaaa gcaagacctt gacttgcatt 300  
 tcaataatth ttacaactth tgaactctth tgaacaactt ttgagatath ttgaaacctt 360  
 cgcttctaath cttctctctt cttctcttgc caaaaagctt tctaagttth t 411

<210> 9810  
 <211> 427  
 <212> DNA  
 <213> Glycine max



<223>        unsure at all n locations  
<400>        9810

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tcttagtctc agatnannnn atgagtttgt agctacctta tgcactctc taatgactat   60
ggcatcattt ctggcgctaa actgctagga gttggaagcc atcttctcaa ttaaatttct  120
aacttcagca ggagtcattg ctccaagggc ttcaccactg gcagcatcta tcatacttat  180
ctccatatta ctgagtcctt tataaaaaata ttggagaaga agctgctctg aaatctgatg  240
gtgagggcaa ctggcacata attttttaaa tcgctcccag tactcataca ggctctctcc  300
actgagttgt ctaataacctg agatatcttt cctgatggct gtggctctgg aagcagggaa  360
aattttttct aagaatactc tcttaaggcc atcccagctc gtgatggacc ttggagcaag  420
gtaatac                                           427
```

<210>        9811  
<211>        420  
<212>        DNA  
<213>        Glycine max

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<400>        9811
agcttggtat gaaaaactaa gtttacttct cttaaaaaat ggctttgagc gaggaaaggt   60
tgagaaaaaca cttttttgca aaaactatga atctcagttt ttatcagtgc aagtatatat  120
ggacgacatt atatttggtg ctattaataa aatgctttgt gaagattttt ctaagctaata  180
gcaaacagag ttgaaatga gtatgatggg agaattgaaa ttctttcttg gactacaaat  240
aaagcaaaca cccaaaggtg tctatatcca ccaaaccaag tatgtgaaat aattgttgaa  300
aaaagtcaac atgaacaatg caaaagaaac gaagactcca atgcatacta caacatacct  360
aggtggttga aagcccatat gcaagatttg gattggctcc caagtttgag aactactaaa  420
```

<210>        9812  
<211>        377  
<212>        DNA  
<213>        Glycine max

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<400>        9812
aacattccaa ttgatttcaa aatgtgtgta tcgattacaa gatattggta atcgattacc   60
agtgtatctg aatgttgaaa ttcaaatca attgtgaata gtcatacctt ttcataaaaa  120
gctttgtgta atcgattaca tggttttggt aatcgattac cagtgacaag ttttgaataa  180
```

aaatcaaaag atgtaactct tccaatgggtt ttcaggtttt ctgagggtca taactcttcc 240  
 aatggttttc ttgaccagac atgaaagggtc tataaaagca agatcttgac ttgcatttaa 300  
 cagaacaatt acttacaact tttttatata ctcttttaca acctttgaat ctctttgaac 360  
 atcttcttga acttctt 377

<210> 9813  
 <211> 269  
 <212> DNA  
 <213> Glycine max

<400> 9813  
 ataaggcatg cgaagtgggt ggaattccta gagtctttcc cttatgttat caaacataaa 60  
 acgggaaaaag gaaatatgtt agccgatgct ctttctcggc gtcatgcatt actttctatg 120  
 cttgaaacaa aattgattgg tcttgaatgt ttgaaaagca tgtatgaaaa tgatgaaact 180  
 tttggagaaa ttttaaaaat gtgaaaaatt tcagaaatgg ttctttgaca tgaagctttc 240  
 tttcaagaa acaaattggt gtcctaatag 269

<210> 9814  
 <211> 320  
 <212> DNA  
 <213> Glycine max

<400> 9814  
 cagcatgcaa gctccacact ggagaatgga gaacatatta ttagcgctag gcaaaaacac 60  
 tcaggggggt ccgaacaaaa gttagaggatg gacgaatgcc aagaaggacc gcacttaggc 120  
 aaacatgaaa ctgagctcca aactcgaaag tggaggacac aagaatgaca acgcggcacc 180  
 cgaaaaggat gagaaggag gattgccgtg agggacctca cttaggcaat catggaacac 240  
 agatccaaac tcgaaagtgg aggacacacg aatgacaacg caaaggatcc acggggcccc 300  
 agaaaaggaa gataatggag 320

<210> 9815  
 <211> 614  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 9815

agctttgaag gtgcgtagcc caccattttt catagtagaa tactggtaat gtgtctacta 60  
tcattgtcat cgttttttcg tcattgaggt gccacttgag ctgccagggt cttccacctt 120  
gggcgtatcc ttagaaagat ccgtgccctt ttttctttt tttttttcac atgttttgta 180  
gttgcatcct atccgaagac attatactga cactgcctaa cgaaggcaac cactaggtcc 240  
ttccaagaat ggactcggga aggttccaag ttagtgtatc aggtaacagc taccacagta 300  
agactttctt ggaaggaatg tatcagcaat tctcatctt ttgcgtatgc ccccatcttc 360  
cgacaatata tctttagatg gttcttgttg caagtattcc ccttgactt gtcaaagtcc 420  
gacaccttga acttgggagg ggtgatgata ttgggttcta agaacaactc tnttaagtta 480  
gcaaaggcat aatcttcacc tcttcaatg gccctgagtc tttctctat atgatccaac 540  
tcttccattt ctgccatagc acaaggtttt ttactttgtg tggaatgcaa gaggtgtaac 600  
ttggggtgat actg 614

<210> 9816

<211> 631

<212> DNA

<213> Glycine max

<400> 9816

agcttgtatg agtactggaa aatatttttt aaattgtgtg caagctgccc tcaccaccag 60  
atttctgagc aacttcttct tcaatacttc tatgaggagc ttaccaacat ggagaggagt 120  
atgattgatg ctgccaacaa ttcaattcaa gaaatgatgt tattgttctt agaggagtcc 180  
atgaggtggc cacagattca tcttcatcta ctgaaaataa aaagcttgaa ggaaaacttg 240  
atgccttggt caaactagta actcagcttg ccatgaatca gaaatctaca cctgttgcaa 300  
gagcctgttg tctatgttct tctgtagatc accattcaga tctttgtcct tctttgcagc 360  
aatctggagt caatgagcaa cctaaagctt atgctgcaa catttataat agacctccac 420  
agcgacaaaa ccaacaacag caaaataatt atgaccttcc aagcaacaga tacaatccag 480  
gttgaggagaa tcatccaaat ttgagatgga caagcccttc actacaacaa tagtctatcc 540  
cttcttcca gaataccgct agtccaagca tgccttatgt tctctctcca atgcggcaac 600  
aacaacggca gctacaacaa atacaacaag c 631

<210> 9817  
 <211> 499  
 <212> DNA  
 <213> Glycine max

<400> 9817

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agcttgccctg gttttatattt gtgataatta tgaagaatga ttttatttat ttttatttta 60
aaacttagta cactacttat aagttataat catacactaa aaaattacta tcaagcttgg 120
cattattttc aagaacttta ttgtttcttt gggttgatcat ttccatttta ccattgtctg 180
ttttcaataa gtaggcattg tattgaattg aattgaattc ttaagaatct aggcattgta 240
atcgattacc agagacagaa tacttagagg tttttcaaaa agaagtttga aatttgaatt 300
ttaaatactg taatcgatta ccatttaact gtaatcgatt cccagtaacg aaaattttag 360
aaatttgaaa tgaaaagtca tgaccctca atgtataact gtgtaatcga ttaccagtga 420
gggaattcta aaattgttct gaaaagtcac atctcttcaa aagttttgaa aaaccacaaa 480
gggcctatat atatgtgag 499
```

<210> 9818  
 <211> 565  
 <212> DNA  
 <213> Glycine max

<400> 9818

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agcttaacta cacttaaggt tctttgctcc ttcaaaacta tgtgttcaac taagcaatgc 60
attaaagaca tgtaatttta attgaataat aaatgcgagt ctttattagg aggtgtgatt 120
aattcattta atataataaa tgggcagatt attcaaggag tagttgaaga ttgatttat 180
tctagactat tactttttgt tggacaagtg acctcaataa cttaagaggg ggtgaattaa 240
ttaagtttta aaatttcccc gctaacaaat tttaaccctt ttttaaatga tacatgataa 300
actcaaaatg cagaagaaga agaagaaaca atcaatttaa taattttctt ttaaatgcac 360
aagacaaagt aaactgcaat aaaataactg agataaggga agagagaatt gcaaaactga 420
tttatcctgg tttggccact ccccgatcct atgtccagtc cttaagcaac ccacttgaga 480
ttttccacta tctttgtaaa ctctttacaa cttctgaaca catcttggga ttcttctctc 540
ttgtgttcag gattctcata agtca 565
```

<210> 9819  
 <211> 473  
 <212> DNA  
 <213> Glycine max

<400> 9819

agcttccatc acttttgacg actgtttttt gagattcctt agcattggcc tgataccttg 60  
 cacataagta agcacttagc atgacatatg gtctattttt agttaagtag aggagtgatc 120  
 caatcatacc tctatatctt aactcatcca ctgatttacc tttctcatct aagtcaaggt 180  
 aggttaaagt tgccattgga gtagatgctt ctttgcatth ttccatgcc aatttcttaa 240  
 ttagttttgt acaatatctt gtttgattta ggaagggtcc atgtttcatt tgcttgactt 300  
 ggagtccaag aaagaagttc aactctcccg tcatagacat ctcaaattcc ttttgcatat 360  
 aactagaaat ttccttacac aaaatttcat ttgtagcacc aaatataata tcattaacat 420  
 atattttaac aattagcaac tcaactgttta cttttcttaa taaacaatgt ttt 473

<210> 9820  
 <211> 254  
 <212> DNA  
 <213> Glycine max

<400> 9820

gcgtctcaat agattacggg actcattcag acatccgagc aaaacgttat tgcgttttgg 60  
 attagtccag agcttcagaa ttcaatttcg atcgtctcga tatattacgg gactcaatca 120  
 gacatctgag gaaaaaagtt attgtcgttt gaatttgctg agagctcaac attcaatttt 180  
 gagcggctcg atgtattacc ggacctaate aaacctcca ggtaaaaagt attggtggtt 240  
 ggatttgctg agaa 254

<210> 9821  
 <211> 324  
 <212> DNA  
 <213> Glycine max

<400> 9821

aataacaaaa tgcacatttg gccaaccttc aggcaagtag ctgggacatg tgggttcttc 60  
 tcgcgggggc gaaacagtgc taaccaaggt tcacgtatt taacagtggc cggaacctct 120

atcggggcat gcaactcttaa acttttttggg actcgcggga ttctacaaaa gattcatttt 180  
 cggctatgcg acaattgctg caccttaacc caacttctaa cactggaacc ttttcaatgg 240  
 gcccagaag ctctgcaat ttttgcgtct cttaagcaga tgcctgacctc aacccctggt 300  
 ctccggttgt cggactttac tctt 324

<210> 9822  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<400> 9822

aacatagaat tcccatgtat atgtagatag tttctgcatt ctaccagaca attttttttt 60  
 agaaataagc aataggatgc ttgttttggc ttaacacaac accaactccc ctccctgaag 120  
 catcagtttc taatacaaaa agtttattga aattaggaat agccaagaca ggtgcagaag 180  
 tcatggctat cttaagtttt tggaaagcct gtgcagtage ttgaccccat ttgaaagagt 240  
 ccttcttcaa tagaacgtc agaggtgttg caatggtagc ataggtctta acaaatcttc 300  
 tataataacc tgtaagtcct aggaagcccc ttaatttctt tagattcata ggctctggcc 360  
 aattctgaat tgctctaat ttgtttgcat ccatagctat gcctgatect 410

<210> 9823  
 <211> 558  
 <212> DNA  
 <213> Glycine max

<400> 9823

agcttgttca tcttgagata atttgtgttc atctctattt gaagttgatg gtgcaacata 60  
 tttctttggc ctaacaggaa ctccaatatt ttacagctt ttaatgttat gattgggttg 120  
 gccacacctt ccacatgtaa actcaggcaa ttctctcttt agcttatgtc ctgtgacatt 180  
 gtctctattt acaggtctcc ttctattttt ctttggcctt cctcttttga cctttttatg 240  
 tgggtggaaca ggggtgtgtat actgtgtctg ggcccaatat tgtgtgctct ggactgggtc 300  
 aataaaatgc tagtatgtct tattataagc ttctattgac agccactcat gacacatgtc 360  
 ctcaggcttc cctcctttgt gagttattgt tgcaatgaca tgtccgcatg gcatccctac 420  
 atcaaagtgt taaaatcagc acacatgtag gttaggaatg aaaaaaaaac tattaagaac 480

acaacctgtt agttgccata ctccacaagt gcatgtccat tcacctaaat tgacctcaac 540  
 cttatttccc cacatgtg 558

<210> 9824  
 <211> 117  
 <212> DNA  
 <213> Glycine max

<400> 9824

agcttcaaca tcagacgcct ttctttgtgt tggaaactact tctcatggac ttgatggggg 60  
 ctatgcaagt cgtgagcctt ggatgaataa ggtctgccta tgatgaagcg gatgatt 117

<210> 9825  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9825

agctntctcc actaagttgc ctgatgcctg aaatgtcttt tctgatggca gtggtcctag 60  
 atgcagggaa gattttctcc aagaacaccc tcttaaggtc atcccagctg aaaacggacc 120  
 tgggagcaag gtagtatagc caatcttttg tcaactccctc cagagaatga ggaaaagcct 180  
 ttagaaagat atgatcttct tggacatcag ggggcttcat ggtggaacaa aaaatatgga 240  
 actccttaag atgcttatga ggatcttcac ctgcaagacc atgaaacttt ggcagcaaat 300  
 gtattagtec agtcttgaga acatatgaaa caccctcatc aggatattga atgcacaagc 360  
 tctcataagt gaaatcaggt gtagccatct cctaagagt cctcttacga ggtggagggt 420  
 gagccatggt ctcatgtatga aa 442

<210> 9826  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<400> 9826

tcataagggt atatatggcc tcaaataagc tcctaagtct tggtttgata aactaaatga 60  
 gactctacta atgtttgaat tcaaatccaa caagtttgat ccttcactat ttgtttat 120  
 taaggcttca tccataatct acattccggt atatgttgat gacatcataa aaacatgaaa 180

tgatattcct ttattacatc aactcatttc taagctaaat atagtatttt ctctcaaaga 240  
 tcttggaacc tcagattatt tcttggaat gaaagtaaag catctatctg atgggtccat 300  
 tgctttaact taaaccaaat atattataga cttaatgggc aaaaccaaca tgtagatgt 360  
 caaacctata tcttcccaa tggttaactg 389

<210> 9827  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<400> 9827  
 agcttcattc ttagaatgaa gtaagtagat atacatatat cgtgaataat catctataaa 60  
 ggttatgaag tatttcggac tatttcgac catgtctgga caacatatgt ctgtatgtat 120  
 gatttccaat aaattagaac tctcttttgc acccttttta gacttgtag ttttcttacc 180  
 cttaatgcaa tctacacaag tctcaaaatc atcgaaatcc aaagtactaa gtactccttc 240  
 atttactaat tgcttgattc tctcaataga gatatgtcct aatctctggt gccacaacat 300  
 agaggattct tcattcacat tacatcgttt taaccaata gaaacatgca tagaagtagc 360  
 atcgtttttc aattcaatcg aataaagacc atcaaccaat tgaccacaac caataatttc 420  
 agaattattt 430

<210> 9828  
 <211> 266  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9828

gctctcgaga aactcaaatg gtcataactt atcacacaga cgtccgattc atgcgcataa 60  
 tatatcgaga cgctcgaaat tgaacaacgt atgggtgcga gaaattcaaa tggtcataac 120  
 tngtcacacg gaagtccgat tcatgcgat aatatatcga gacgctcgaa attgaacatc 180  
 gcaagctctc gagaaattcc aatgggtcata acttgtcaca cggaagtcgg attctggcgc 240  
 ataatatatt gagaagcttg aaattg 266

<210> 9829



<J11> 419  
 <J12> DNA  
 <J13> Glycine max

<400> 9829

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aycttgaat tgaacaacag atgctctcga gaaattcaaa tggtcataac ttatcacacg 60
taggtccgat tctggcggat agtatatcga gaagctcata attgaacaac gaaagctctc 120
aagaaattca aatggtcata acttatcaca cggaagtcg attaaggcgc ataatgtatc 180
gagacgctcg aaattgaaca acggaagcac tcgagaaatt caaatgggtca taacttatca 240
cacggaagtc cgattaaggc gcatagtata tcgagaagct cataattgaa caacgaaagc 300
totcaagaaa ttcaaattgt cataacttat cacacggaag tccgattcag gcacataata 360
tatcgagacg ctcgaaattg aacaacgaaa gctctcgaga aattcaagtg gtcataact 419
  
```

<J10> 9830  
 <J11> 423  
 <J12> DNA  
 <J13> Glycine max

<J23> unsure at all n locations  
 <400> 9830

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agctngaagg agtttcatgc accatggaac tatttcactc tataagttga ttccaattgg 60
cttctagtt ttcagcttac ctatttggat gtgggatcat ggcagttagg tcccagcttt 120
ccatcgtgga ttacgtcaca aaaaaaactt aaatatttag gcatgtctaa cacagggatt 180
attgattcta ttctacaca gatgtgggaa gcacaatctc aggttttgta tttaaaccac 240
ttcataatc atatccatgg tgagcttggtg actacattaa aaaatccaat atctatccca 300
actgttgatc taagcacaaa tcacttatgt ggtaaattac cctatctttc aaatgatgtg 360
tatgggttag acctttcaac caattcatct tctgaatcca tgcacgattg tttatgtaac 420
aat 423
  
```

<J10> 9831  
 <J11> 405  
 <J12> DNA  
 <J13> Glycine max

<400> 9831

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actttaatag tcgttttata gattcggcgt tgtcaagtgg agaacgtaac ttttccaaga 60
  
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attcattttt ttatggatac tgtctcattt tctgcataaa aatttgtaga gattctgata 120  
 ggtctagatt aatctgataa ttcaaatcat accacttaaa tgtattcgaa tcttttttat 180  
 tcatatcaga ttcgaaattaa tctaattgaa aatcgatgtt gatagacttt aattattata 240  
 tatagataga atttttatga tttaatccat taatcatgtg ttattttcta taatttgcta 300  
 ttatttagtt ggttctaagt caataataac attcatatat atcgcttaca ttataatggc 360  
 aagtatggca ttattatttg tcaacaatgg aataaaatta tgtaa 405

<210> 9832  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<400> 9832  
 agctctcata gttcaatttc tagcgtctcg atatattatg cgcctaatac ggacatccga 60  
 gttaaatgtt atgaccattt gaatttctcg agagcttccg ttgttcaatt acgagcgtct 120  
 ctatatgtga tgcgcctaaa tcggacatcc gagttaaaaag ttatgtccat ttgaatttct 180  
 cgagagcttc cgttgttaaa ttttgagcgt ctctatatgt gatgggcttg aatcggacat 240  
 ccgagttaaa agttatgtca atttgaattt ctcgagagct tccgttggtg aatttcgaga 300  
 gctcgcgat attatgcgcc taaatcagac atccgagtga aaagttaga ccatttgaat 360  
 ttctcgagag cttccgttgg tcaatttcga gcgtctcgat atattatgca cctgaatcgg 420  
 acatccgaat g 431

<210> 9833  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9833

tgtaaaaaaa tgaagcaggt taaaactctt ttcaaagaat aaattttgtt tgtattagaa 60  
 aaccccttga acaacttcac attgatttat ttggctccct tagaactatg agtttggtg 120  
 gaaattacta tggcttagta atagtagatg attactcaag gtccacttgg acttagtnt 180  
 tgaaaaccaa aaatgaagct tttgatgctt ttcgaaaact tacaaggtga ttcaaatga 240

aaaaggctctc aacattgttt caattaaaaag tgatcatgga ggtgaatttc aaaatgagtc 300  
 ttttgaaaac ttttgtgaag aaaatggaat ttaccataat ttttttgccc caagaacacc 360  
 tcaacataat ggtgtttag agaggaaaaa t 391

<210> 9834  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9834

tettggtttc agctgctgaa gatgaatccg tggctacttc atgcactcct ctaatgacta 60  
 tagcatcatt tctgccacta aactgttggg agttggaagc catcttctca attaaatttc 120  
 tggcttttagc aggggtcatg tctccaaggg ctctaccact ggtagcatct atcatacttc 180  
 tgtccatgtt actgagtcct tcataaaaaat attggagaag aagcagctct gaaatctgat 240  
 ggtgagggca actggcacat agtttttttaa atctctccca atattcatac aggcctcttc 300  
 cacagagtgtg tctaatacct gaaatatctt ttctgatggc catggtcctg gaagcaggga 360  
 aattntttta taagaatact ctcttgaggt catcccagct cgtgatggac cttggag 417

<210> 9835  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9835

taatgatgat tcaaccctta agcacttatg ggctgaagca gtgaatacta catgttatct 60  
 taaaaacata atttacataa gacctatcct taaaagact ctatatgaat tgtggaaggg 120  
 atgaaaatcc aacatatcat atttcatcc atttgatgc aaatatatta ttctcaccac 180  
 acaggataac ttgggaataa ttgattcaaa aagtataat gggatatttc ttggatactc 240  
 taaaaattca aaggcattca gagtttataa ctcaggaacc ttggtagtgt aagaaactat 300  
 tcatataaga tttagcgaat ataagtctga caaagattta ttagagctac acgatttgca 360  
 gatntaagac tcgatgtgtg ctctatagca cgtagcttgt aaagaaag 408

<210> 9836

<211> 469  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9836

acctgcgcca tgcaagctta tgtntcaaac atntataata gacccccctca gcagcaaaac 60  
 caacaacaac agaataatta tgatctttca agcaacaaat acaatccatg ttggagggaat 120  
 catccaaacc tgtgaaggac aagtcctcca caacaacaac aacttgctcc tccttttcag 180  
 aatgctgctg gccaagcaa gccatatgtt cctccccaat gcagcagtag caacaacaac 240  
 aaagacaaca agcaactgag gctcctctc aaccttctt agaagagtta gtgaggcaaa 300  
 taaccatcca gaatatgcaa tttcagcaag agacaagtgc cttcattcag attctgacaa 360  
 atcaaatggg gtgatggct actcagatga atcaagctca gtcccacaat tatgacaaat 420  
 tgctttcaca aactgtgcag aatccgaana atgtgagtgc catcacctt 469

<210> 9837  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9837

agcttcaaga aaaagatggc ctcagcaaac tccttatttc cagaaggga ttttatcaat 60  
 agacctccaa tctttaatgg agagggttac cattactgga aaaccggaat gcaaattttt 120  
 attgaggcaa tagatctaaa tatttgggaa gccatagaaa tagggcctta tatacccacc 180  
 acagtggaaa gagtttcaat agatggtagt tcatcaagtg aaagaataac tatagaaaaa 240  
 cctagagata gatggtctga agaggataga aaacgagtag aatacaactt aaaagccaaa 300  
 aatataataa catctgccct gggaatggat gaatatttca gggtttcaaa ttgtaagagt 360  
 gctaaggaaa tgtggaacac tcttcgatta acacatgaag gaactacnga tgttaaaaga 420  
 tctatgataa atgcactaac tcatgag 447

<210> 9838  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 9838

```

ntgaggaaat tcatacgaca ataccttttg acacggatgt cggattgagt cacgtaatat   60
ctcgagacgc ttgaaattga ataccgaagc tctgagcaaa ttcaaacgac aataactttt  120
tactcggatg tcggattgag tcacgtaata tgtcaagacg ctcgaaatag aataccgaag  180
ctctgagcaa attcaaacga caatacctat tgactcggat gtccgattga gtcacgtaat  240
atctcgagac gctcgaaatt gaataccgaa gctctgagcg aattcaaacg acaataactt  300
attactcgga tgtgcgattg agtcccataa tatgacgaga cactcggaat tgaataccga  360
agttatgagc aaattcaatc gacaattaat ttactcggga tgcggattg agtcacgtaa  420
tatg                                     424

```

<210> 9839  
<211> 323  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9839

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agctntaaca ttcatctacg agcgtctcta tatataacgg gactcaatca gacatccgag   60
taaaaagtaa ttgtcgtttg aatttgctaa gagctgcggc attcaatttc gagtgcctcg  120
atatattacg ggactctatc agacatccga gtaaaaactt attgtcgatt gaatttgctc  180
tgagcttcaa cattcaattt cgagcatccc gatataattac gggactctat cagacatccg  240
agtaaaaagt tattgtcatt tgaatttgct ctgagcgtca acattcaatg tcgagcgtct  300
ngatatatta cgggactcaa tca                                     323

```

<210> 9840  
<211> 438  
<212> DNA  
<213> Glycine max

<400> 9840

```

acatcgagta aaaatgctat taaatttccc tataatagat gatttggtaca attcttttct   60
gtacttcaag ttggtaaaaa aaatttagtt actccaatca tttagaatga agttggtoca  120
ccccattttt actcgagcaa gttagacaaa ttcgtatcat aaatatactc acaaaaactaa  180

```

tgtaaaatgt ctattatgta attatctgtt gcatgttata tatcataagt ttgttgagtt 240  
 catcttttagt tttgttaget cacaccaata tttatgtcaa tttacatatt gttatatata 300  
 ataagtgtgt aagattttat aataaatatc tcaaaaatta tttgtgagtg attaatagtg 360  
 caaaaaattt ataacggtaa tgcattgaaa ttaaattcat taataaatc ttgaatgaaa 420  
 atacacaata aaatgaac 438

<210> 9841  
 <211> 389  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9841

atnctgactc cgatagatat aagattcttg tgggataact cattctccct accattacta 60  
 gacctgatat ctctctgct gcgggagtg ctgccaattt atgcagaatc ctcatctgga 120  
 ccattggaat gctgacatgc ctattctgag ggatgtatat acagctcctg gactaggggt 180  
 gctgtatgaa aacaatggta ttacgcaact atcatgatat tgtgatgctg attgggctgg 240  
 atgtcccatg gataggagaa ctacatcacg ttatagggtc ttactggtg gaaatctaaa 300  
 ctcttgcaaa gcaagaaaca gactattgtc tctcgggtcca ccgcacaagc cgacgatcga 360  
 tctatggcta tcattacatg tgagctcat 389

<210> 9842  
 <211> 424  
 <212> DNA  
 <213> Glycine max  
 <400> 9842

agcttgctgc attgtacgag taccctgaag acttcttcca ggtctgccaa ttgaagatgt 60  
 caactttcgc tacaagggtc tgccattcgg cctaaaaaat gcaggcacga cataccaacg 120  
 actaatggac tgagtcttca aacaagagat cgaatgaaac gtcgaggtat atgtggatga 180  
 catggatgtc aagtctggag gatgcatact ggtcttgta tatccagggt aggcatacag 240  
 gaagcttaac acctggaacc cagacgtccc atcgactaac ctgttgatgt tgggcagatg 300  
 gtatgtgtct ttagagcatg ctctagacat atcagagtag tcagtgcata ttgcacattt 360  
 gctattagcc tatttgacca tgacgatgtt ggcgagccag gtagagaacc taacctctct 420

gatg

424

<210> 9843  
<211> 434  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9843

agcttggtcca tattcttgat cccatttggt ctttntgggc tttttcagta agttcatgat 60  
cygcctagcc ttctcagcta tccaaggtag aaatcttata aaagaggcta tgcgtcctgt 120  
gagtccttgt atctctttag aagtcttcgg actcctcata tcaatgacga ctggacattt 180  
atctagatta gcttgatgc ctctttggga aagcataaaa ccaaaaaatt ttctctctcc 240  
aatcccaaga acacattttt agagggttaag tcgtatgtat gtttttggat ttgtgaaatg 300  
atctcggcta ggtcctcaac atgggacttg actccattgg atttgaccac tatctcatca 360  
acgtacacct ctatatttct acgaatttta tctttgaaga tcttatccat gaggcattgg 420  
tacatagctc ccac 434

<210> 9844  
<211> 379  
<212> DNA  
<213> Glycine max

<400> 9844

tctttatccaa ggctcatctt ggtgggtgaag ctctctcttt catggcttat tccctagtg 60  
atggcgccgc ctcttacctc ttctcctttg tcttcgctg catctccatg gtggaaaatc 120  
accattaaag gacctcattg aagctcaaag atccagcttc catagaagct ccacaagcaa 180  
gtttccatca tgaatgatgc aatcctacce cgcaagggca ttggatagaa gactccaagt 240  
agattgggct agagatgcaa gagaaggccc tagggttctc atgagcctta ggatagattt 300  
cgggcccatg ggctaagtat gagcccactt atctttgtac atattaaatt aaggtttcat 360  
taattttggg tcttttatt 379

<210> 9845  
<211> 436  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9845

agctngccac cacggagttt tccgactatt ctcttgtgtg gtggaacaag ctacaaaagg 60  
agagagcaag aaatgaagag ccaatgggtg atacatggac ggagatgaaa aagatcatga 120  
ggaagcggta tgtgccggt agttactcaa gggacttgaa attcaagctc caaaaactaa 180  
cccaaggcaa caaggggggt gaggagtatt tcaaggaaat ggatgtgctc atgattcaag 240  
caaattatga agaagatgag gaggttaacta tggctcgatt tcttaatggt ttgactaatg 300  
atatccgtga tattgttgag ctgcaggagt ttgttgaaat ggatgatttg cttcacaaag 360  
caatccaagt ggagcaacaa ttaaaaagga agggagtggc taagaggagt ttaccaact 420  
ttggttcttc tagttg 436

<210> 9846

<211> 453

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9846

cttgggttaca tacatcatgc aaactaccct ntcccccaag ggtagtgtg atgatattga 60  
taaggcttgt aggaattnta ttttgggaca tgattcgagt gaaaggaaaa tccacctagt 120  
atcttgaac accatttggt cagataaaaa taatggtggt ttgggcctgt gcaagaagag 180  
gtatgtaaat cangccttta tgttgagagc taattggcag ttttgtaaaa tggaagctcc 240  
tatttgggct tctattttac gaaacaagta cagatgtggt gcagattcgt tcctacagt 300  
tgatagtaaa agggccggta gcaatatttg gcgtgggatt tgctttacgt gggatttttt 360  
ttttgtaaga atgtggtttg gagggctggg gatggtacta caatgaaatt ttggcgtgat 420  
tgctggatcc ctagaagctt tccctcgatt gat 453

<210> 9847

<211> 445

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9847



ngaagtgggtt aaacttttcta caagatacct gctctgatac cattttgttg atcaagtggc 60  
 ctcggaataa ttaagaaggg ggggtgaatt aattattaat gaacctttac taattaaaaa 120  
 tttatccttc ttaatgttac tagattcaat taggccttta ctataatgtt aagaaagtaa 180  
 ataacagaaa aagaaactta accaaaagta aaagcgataa ttaaagtgca cagcggaat 240  
 taaagagtgt agggaagaag aagacaaaca caagaattta tactggttcg gcaacaaccc 300  
 gtgcctacat ccagtcacca agcaaccacc ggttcttgag atttctttca acctgtaaa 360  
 atcctttaca agcaaagatc cacaagggat gtacccttcc ttgttctctt tgaacaacca 420  
 agtggatgta cctccactt gaact 445

<210> 9848  
 <211> 422  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9848

ntagattcat cacttacccc aagcaatata cactgcatgc tcttgtcacc cagctttgtt 60  
 cttttctgat caggtacatg gacatgagtt aggcacccaa atacttttaa gtaatctact 120  
 ttaggtttga ttccactcca catctcttct ggagttttat ctttcactgt caatgtagga 180  
 ctctctgtga gaacatgaac tgtccatttt gcagcttctg gccaaaaaac ctttgggtact 240  
 tgtttgcac aaagcatgca ccggaccata ttcataatgg ttogattttt aactccgct 300  
 acgcgctttt gttgtggagt gtaagatgtt gtgagttgcc tgcttatgcc attaatttta 360  
 caaaattcat taaactcatt tgaggtgaat tcaccccccc ctatctgtgc gtaaacacaa 420  
 ta 422

<210> 9849  
 <211> 388  
 <212> DNA  
 <213> Glycine max  
 <400> 9849

tccttaagaa gattcctaaa gaagcttgag cttagctaca catacctctc taatagctaa 60  
 gtcacctcc ttgagatgag aagctagagc ttagctacac accccctata atagctaagc 120

tcaccccatg acaaaaaata tgaaaataca aaaaaatgtc cttactacaa agactactca 180  
aatgccccaa aaatacaagg ctaaaaccct atactactag aatggccaaa atacaaggcc 240  
cagacgaagg aaatacctat tctaataattt acaaagataa acgggctcat acttagcccc 300  
tggtgctcga atctacccta aggtctcatga gaaccctagg gccttcctt ggatctctag 360  
ccaatctact tggagtcttc tacccaat 388

<210> 9850  
<211> 387  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9850

tgtgttntaa tgtttcaatg ctgattgcac cggttcccca ttctgttata gatgtaattt 60  
tttcgtaatt ggtattctga ataactgatt gaaatgatta aaacatcctg aaggcttaca 120  
atgactacta tattttacac aggatactgt agttggattt ttgttgctg gagtgggaaa 180  
tgttgacata cgtaggaaga caaattacct cattgtggat tcaagtatgc cactgaacta 240  
tattttactt actattctgt agtctgagta tgtttggtat taatcccta aaaactacaa 300  
tgtttttctt gtgaaattgt acatcatgaa gtgactcct gcctcttcta tctaccatcc 360  
aaattgtgat acccaataaa caatata 387

<210> 9851  
<211> 443  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9851

agctntaaca ccattaaggg taaagactct tcccgtggcc ttggatgtc cagtttgacc 60  
attcgggcct ccaccatttc gctctttctt gggtcgtgaa caatctctt gagtgtgtcc 120  
cttttgccta taattaaaac atgttgccgc tatatcagga caattcgagg agatgtgccc 180  
tggcttacca catctgtaac aaatgatatg agtgagaaaa gtattgggct tgcaccact 240  
accacctgca aatccctag caacagtcct ctgattgtca tggcggttac catattgctt 300  
aggggggttc gaatatggtt tctctcaatg ttgaggccca ttcttntgt tctcattgg 360

acctgtactc caataatagg cgcacctatc tcgggagtct tcacccaaa tcgggcacat 420  
gttaaccaa agtgggaact gac 443

<210> 9852  
<211> 438  
<212> DNA  
<213> Glycine max

<400> 9852

catgcaagct tgtaggtaaa ctatagtcct tagttatacc tggtaaccca actggccatg 60  
aataaaaaat ctgcacttgt cgcagactc tgtggtttat gctcatttgt cgaccaccac 120  
acagaccttt gcccttctat gcaacaatct gaagcaattg aacagcctga agcttatgct 180  
gcaaacatct acaacagacc ttctcaacct gagcagcaaa atcaaccaca atagaacaat 240  
tatgacctct acagcaacag gtacaatcat ggggtggagga atcatcctaa ccttagatgg 300  
tcgaatcctt cacaacagcc gcaacaacaa ccttattttc aaaatgttgc tggcccaagc 360  
agaccatacg ttctgccacc aatccagcag caacaacagc aacagccgca gaaacagcaa 420  
acagttgatg ctctctcg 438

<210> 9853  
<211> 429  
<212> DNA  
<213> Glycine max

<400> 9853

tgtgttatga aatttatgat tctccaagaa taatttaatt tctccaatt atgcatgaac 60  
cctacttatg aaatttaggg ataatttaatt ttctttcaat tatgcatcaa cctgatcat 120  
gaaatttagg gatttttttt tctgctgaa agtatgaaat cttatatgga aaagggtatc 180  
aattaagttg gcttagaagg aaattttgaa attgctatgt gcaaacccca ttttgctatt 240  
ctcagtccea cttgcttttt tttcccaaaa attattatta aacatgatta aaggattgaa 300  
agtttatacc ctgcaattaa attaatgtga atgctttgaa attattggta gcaataaata 360  
tatatatatg ctacatattt cttttgaaag tgttgaatgc aaatcacaac taaatgtgaa 420  
tattattta 429

<210> 9854

<211> 424  
 <212> DNA  
 <213> Glycine max

<400> 9854

tataatgtct tgaaaaagat tgattatcca tatgaggcca gcgttatttc taaattctaa 60  
 ttctatcaaa taagccaatt atcattatctt attattgaat ttataattga cattcctctc 120  
 atatgcattc gaaacaaacc ttgatcctag acattcttac tctcatttct ttacttttgt 180  
 gttacgcatt ggaattcatt tttatccaag atttacatc actcaaaatt ttattgggta 240  
 aatacgtgtg tcaagagggg acataaatag aatttatttc acttaagatt tctcacttat 300  
 ttgacattgt aatcataatt tttttccagc acatattgca cagcatgaaa gatcccagta 360  
 ttgctgcatt ttggttgact acatttcttc agattatggg tggatttacc tatgacgatg 420  
 atgt 424

<210> 9855  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<400> 9855

agcttattta aaagttctgc ttaaagacgt ttttgattaa ttaattatct taaaacctag 60  
 tgaaatacta actaaaaaaa gaaacttata aaattttgta taagtaatgt acaaatccaa 120  
 aaataattga taaacaaaat catattgaat tcaagtcgtt aaagcataga gtatattaaa 180  
 agaaaaataa aaaaacataa tagtaaaaaa tgtatggatt agagatgatt tgcaaaaaat 240  
 gaattctatt ctatgtgaac agtgtgcatg gacagtaata aaaattggaa tactaaaaatc 300  
 ctagaattat tctcctttcc gaaaaaaaat tccctaaact aaaaccttgg tgcttgata 360  
 taagtacttg gccccaaagc ttacaaatct attttaagtc caagcccat 409

<210> 9856  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<400> 9856

actaagctta tgctgaaata ttacaataga cctctcaac ctcacagca aaatcaacca 60

cagcagaaca attatgacct ttccagcaac agataccacc ctggatggag gaatcacct 120  
aacctcagat ggtccagccc tcagcaacaa tagcagcctg cttcttctt ccaaaatgct 180  
gctggcccaa gcagaccata cattctctca ccaatccaac aacagcaaca accccagaaa 240  
cagccaacaa ttgaggcccc tcacaaacct tccctcgaag aacttgtgag gcaaatgact 300  
atgcagaaca tgcagtttca gcaagagacc agaagcctca ttcagagctt aaccaatcag 360  
atgggaca 368

<210> 9857  
<211> 413  
<212> DNA  
<213> Glycine max

<400> 9857  
ttcattagat tgaactgcct tggatttatt atttgtattc acagacttgt acaaatcaac 60  
ttcaagctca cataaatctt caaccaccca gtcttttggc accagtcgag ttctgagtc 120  
attctgggtt gactcaattc cattttcttc tggaagcttc ttccggttat aggtgtagga 180  
ccaatctact ttggatacat caacacatgc cttatttgcct atagattcaa tgcaatggct 240  
gacaaccttt atgtcctcaa ccaagggtaa catatacttt gaagtctgaa gaaggatgat 300  
tgaatccttc caactacgga aaatgctaga gctaataaaa acatcaatct tgtcaatgag 360  
gttcccttcc tcaatggcct catgcattcc aagatactct gctgcacatc gag 413

<210> 9858  
<211> 421  
<212> DNA  
<213> Glycine max

<400> 9858  
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acttattgtc aattcaattt tctccgagct ttggatcaaa attttgagcg tattgatata 120  
ttacgggact cattcagaca tccgagtaaa aaattattgt cgttagaatt tgatacagac 180  
ttccgttttc aatttgagc atctctcgct aaattgcgac agtctgtcgg gcatccaaga 240  
aaaaatttat tgcgttttca tatttctaag agtttccgct ttcaatttgg agtgtctcga 300  
tatattacgg gactcaaccg gacatccgtg tataaagtta ttgtcatttc aaattgctca 360

gagcttctag tctcaatatt gagcgtctca atatattacc cgattcaatc ggacatgcga 420

g 421

<210> 9859

<211> 441

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9859

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atatatcgag acgctcaaaa ttgagatccg aagctctgag aaaattgaat cgacaataac 120

tttatacacg gatgtccggt tgagtcctgt aatatatcga gacgctccaa attgaaaacg 180

gaaactctta cgaaattcaa acgacaataa ctttttactc ggatgcccga cagagtgtgg 240

taatatatcg agggatgctc cacattgata acgagcgctc ggatgaaata caaacgacaa 300

tatcttttca ctcagatgtc tgattgagtc ccgttatata tcgagacgct caaattttag 360

atccgaagct ctgagaanat tgaatagaca ataactttat acacggatgt cgggttgagt 420

cctgatatat atcgagacac t 441

<210> 9860

<211> 428

<212> DNA

<213> Glycine max

<400> 9860

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caagttagat gagctgaaaa acgaggcttc cattatattg tattagttgg agatgtattt 120

ttctcttgct ttctttgaca tcatggttca cttaattatt catctagtca gaaaaatcaa 180

atgttggtgt cctattttatt tgccatggat gtacccggt aagcaatacg tgaagatctt 240

aaaagggtat acaaagaatc cacaccgtct ggaagcatct attgtggaaa ggtacattac 300

agaagaagct attgaatttt attcagagta cattgaaaag acaaaatctg ttgggcttcc 360

cgagtctcaa catgacgaaa gagtgggagg taagggttca agaggactgt atgttatcac 420

tccaagta 428

<210> 9861  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<400> 9861

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tcccaaagta ccaaaatccc tgcggatata tgaagctcat gttggaatta gtggttctga 120
gccaaaaata tctcattca atgatttcac agacaagggt tccccctca tttcttggg 180
ttggaatttg taactaatca attatacata tcttccatgt ctatatattg taatgggctc 240
cattgaattt ttacttttat tatatgcaca atgcagggtc ttccttacat taaggaagct 300
ggatacaatg ccatccagtt gattggaatt gttgaacaca aggattatct tactgttggt 360
tacagagtaa gttaaatgtt gtaattctta acttattttc tcaactgtaat tatattgtga 420
ttgagattct ttagaagttc ttc 443
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<210> 9862  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9862

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cattgtgttt ccttcattga tgatttaact agaaaagtgt ggatttatct gattaaatga 120
agagtgatgt gtttgatgtg ttcaaaaagt tcaaaagggt gatttagaaa caaaataaca 180
aacagataaa agtgtaaga acaaacgaag gtggtgagta tgtattagat gtgtttcgaa 240
acttctatga ggtagaagtg atagtgcag aaataacatt atcctatact ccacaacaca 300
aaggaaactat tgagagaaaag tgtaacgacc cgcctcgtcg ctacgatatc acttactata 360
aaatatgaca tttcaattta gaagtaaaag cctcattaat ttga 404
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<210> 9863  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9863

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 atcaacaact tcaaaacaat gtatgagtca tagcagcttc accccaaatt atgagtttag 180  
 gcattgagat taactcagct aaaggagtac cttgttttat gttggaagta gaatcttaat 240  
 tgacatttat tggaatatga aatctcgaat gggatgcttt tccgcctaga atcaacaaag 300  
 catccattcc atcagatgcc acagttaaaa caatttctcc tttagatcta aatgtggcaa 360  
 agaaaagctc ttcaaagaag acttatgtgt cctccataa ccataaagaa taaacaatat 420  
 tgcattattt aaattttca 439

<210> 9864  
 <211> 281  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9864

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 attcctagtt cataatggat tcaactagagg aataatggac actacactat tcataaaggc 120  
 cgaaaaagga aaactttctta ttgttcaaat ctatatagat gacataatct ttggtgcaac 180  
 ctcaaaaagg atgtgcaagg atttttctga gctaataaaa ggtgaatttg aatgagtat 240  
 gatgggtgag ctaaaatttat tccaagagct ttaaattatt t 281

<210> 9865  
 <211> 245  
 <212> DNA  
 <213> Glycine max

<400> 9865

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 taaaagtgat gtgcatttaa atatgtcaag agctaccgtg gctcaattgc gagcatctcg 180  
 atatgcatg cgtctgaatt ggagatccct gtaaaaagta ttgaccattt gaattgggtc 240  
 agagc 245



<210> 9866  
 <211> 255  
 <212> DNA  
 <213> Glycine max

<400> 9866

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 agtcataact attcacacgg atgtccggtt cgggcgctta atatgtcgag aggctcgaaa 120  
 ttgaacaacg gaagctcttg agaaattcaa ctggtataac ttttcacacg gatgtccgat 180  
 tcaggcgaat cacatatga gacgctcaaa aatgaacaac ggaagctcct gagaaaatca 240  
 aaagggcata acttt 255

<210> 9867  
 <211> 345  
 <212> DNA  
 <213> Glycine max

<400> 9867

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 ccacaataag gttttaaact tcttgaccat cttgggcttg agatggatct tctgtcatt 120  
 agtcaatttt ctatccataa tatatttaatt tttttagtta tatgatatca atgtaagcct 180  
 ttgatctcat tgattgaaac tocaaagctct gacaagtcac actttacaat gttgctttgt 240  
 gatgtctgtg gatggggaag caagcaaggt gatgaaaggt gttcaatatg aagcctgtga 300  
 ttatctcttt aagcctataa ggatgaaaga actaataaac atatg 345

<210> 9868  
 <211> 359  
 <212> DNA  
 <213> Glycine max

<400> 9868

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 attgcatcca gcagagggtat gtttacctct acttttctaa atgtttccaa gatctccttc 120  
 tctgcctctt ccattttttt gttggaaatt gctcttgag ggaatggaag aaggatatgc 180  
 tgcttctctt tagattcacc tgcataaaaa ttcttaggta acttactctt taaatttttg 240

tcatcatctt tttctggagt agagagaaat tgggcacgtt cattttgtga tgaggaagat 300  
gttgctggtt gaggtccttg aactgcttt cccgacctca atgtaatggc actcatatt 359

<210> 9869  
<211> 369  
<212> DNA  
<213> Glycine max

<400> 9869

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aggtgggact aagactacaa aactctaaca atccaagcaa tgtgggacta agaccacaaa 120  
attctaaca tttctcact tgggggtctaa gttctaaatt cttagcaactc cttgtaagcg 180  
atgagttcat cgactcttta cctagtgtag cgccttcac ttcaattatc cttgaaggcc 240  
aaatgaggca atgcaaagcc tcagcttacc agttgtaaca gcttttagtca acatatctac 300  
tygattctct gatcctaaga tcttcaacaa agataagtct ccacattta tcaactccct 360  
gataaaatg 369

<210> 9870  
<211> 381  
<212> DNA  
<213> Glycine max

<400> 9870

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aggtgctgcc aatgtgctaa aatccttcac aaatcgtcta taaaaacttg ctaagccatg 120  
aaaactcctc acctcggtca cagacttagg tgtatgccat tcttgaatag ccctaacctt 180  
ctctgatca acttgcactc cttttgaact cacaacaaaa ccaagaaaca caacatgggt 240  
agtacaaaag atgcattttt caagattggc atacaattgt tcttttctaa gcgcagtcac 300  
gacagatttt aatgatcaa tatgcaaacc aagtgaagtg ctcttgataa taatatcacc 360  
taacgtcacc acaacaaact t 381

<210> 9871  
<211> 379  
<212> DNA  
<213> Glycine max

<400> 9871  
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aacattaggg atagccaaaa gatcaagagg agttagtggg ttaaaacccat aaacaacttc 120  
aaaaggagaa ctattagtag tgctatgaac aactctattg taagaaaact caacatgggg 180  
taaacaagct ttccaagttt ttaagttctt cctcaaaact gtccaaagca aagttcccaa 240  
tgtcctatta acaacttttg tttgcccatc ggattgtggg tgacaaatgg ttgaaaataa 300  
cattttattg cccaacttgc ccacaaaagt cttcaaaaa aggcattatga acttagagtc 360  
ctatcactaa caatgatcc 379

<210> 9872  
<211> 370  
<212> DNA  
<213> Glycine max

<400> 9872  
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atgagtttat gagcaactca tgattcaaaa gatgtgacat agaccattgc tgctatgtta 120  
agaaatatac taatagttat gttatccttg tcgtgtatgt tgatgacatg ttgattgcag 180  
gatctagtat ggcagaaatt aacaagttga agcagcagtt ggcaaaaaac tttgaaatga 240  
aggatcttgg tccagctaaa caaatccttg gtatgagaat tcttagaaac agatcaaaag 300  
gaatcttgaa gctgtctcag gagaaatata tacacaaatt gcttgacagg gtttaccttg 360  
gagattctaa 370

<210> 9873  
<211> 287  
<212> DNA  
<213> Glycine max

<400> 9873  
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atatgagaaa atctaattaa tttaagtata ctattcttaa aacatccttc atttaattgc 120  
gattctattt ttaatgactt ttttttttct atgatatgaa gattacataa aggaaagt 180  
aggaaaataa gattttttta ttgagattat tacaattaa ttatgttaag tgactttctt 240

aattagtaca aaattaatta tttttactta tatttgaatc tggaagg

287

<210> 9874  
<211> 395  
<212> DNA  
<213> Glycine max

<400> 9874

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aatftatttt atctcaaata tctagacttg tcttcaaaca agtttaaagg ttcaattcct 120  
c:aaaaattgg gtgctctaag gagcctcaaa acattgaacc tttccaataa cttgctgggt 180  
ggagagatgc caaaggaact tcagggcctt gagagtttac atgattttca aatattcaac 240  
aatcacttga tggaagggtg ttggaccaat ctaagagttt ttgctgctta tgagaataat 300  
ttcgatggaa gggttccaag taaacttggg ttcatttatg agcttaaaac acttaacctg 360  
cattcaaacc acctgaaag ccttataccg ggaag 395

<210> 9875  
<211> 329  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9875

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tcactcccaa gccgcttttc gtgtcttacg atacctcaaa agctctccat gtttcagaat 180  
atctcttctg gccaacggac ctctacaact caaagctttc aacgactcct actggncctg 240  
ctgtcgggat acgacgcgtt ccatcacagg gtacttcgaa tatctcagaa tcttccatta 300  
tttcttgggc gtcgaaaaaa caacctact 329

<210> 9876  
<211> 361  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9876

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 tggagaattg cactaagcaa tcactacgca cggctccaag ctccaggggtg gaggacgcat 120  
 gaacgaaaaa gcaattcatg gggctccgaa aaagggttga ggatggagaa ttgcactaag 180  
 caatcactac aaacggctcc aaactcgtgg gtgaaggacg catgaacgaa aacgccattc 240  
 atggggctcc gaaaaagggt tgaggatgga gaattgcact aagcaatcac tacgcatggc 300  
 tccaaactcc tgggtggaag acgcatgaac gaaaatgcaa ttcatggggc tcccaaaaaa 360  
 g 361

<210> 9877  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<400> 9877  
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 ttaggatcaa acttgaaact tatgtgcttc aagtgagaag aaatgcttct ttttcactt 120  
 gtgaagatgt tcaaagtttg gctatgaaga tggttcaaac tgagaaacat ttggtatttc 180  
 cattggttta taaacttatt gagctagctt tgatattgcc ggtgtcgaca acatccgttg 240  
 aaagagcttt ttcagcaatg aagattatca agtctaaatt gcgcaataag atcaacgatg 300  
 tgtggttcaa tgacttgatg gtatgttaca ccgagcggga gatattcaag tcacttgatg 360  
 atattgatat tattcg 376

<210> 9878  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9878

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 ctccgatgtc cgattgagtc acgtaatata tcgagacgct cgaaattcaa tacagaagct 180  
 atgagcaaat tcaaacgaca ataactttta actcagatgt ctgatcgagt ctcgtaatat 240  
 atacagacgc tcgaaattga atacaaaagc tttgagcaaa ttcaaacgac gataactttt 300

aactcaaatg tccgatcgag tcccgcaata taacgagatg ctagacatag aatacagaag 360

ttgggagcta attctaaaga caat 384

<210> 9879  
<211> 361  
<212> DNA  
<213> Glycine max

<400> 9879

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gagagagcaa gaaatgaata gcccatggtt gatacatgga cggagatgaa aaatatcatg 120

aggaaacggt atgtgccggc tagttactca attgacttga aatttaagct ccaaaaaacta 180

acccaaggca acaagggggt tgaggagtat ttcaaggaaa tggatgtgct catgattcaa 240

gcaaatattg aagaagatga ggaggttaact atggctcgat ttcttaatgg tttgactaat 300

gatatccgtg atattgttga gctgcacgag tttgttgaaa tggatgattt gcttacaaaag 360

c 361

<210> 9880  
<211> 388  
<212> DNA  
<213> Glycine max

<400> 9880

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aagttattgt ccttttgaat tgctaggagc ttctgttttc aatttcgagc gtatcgatat 120

attaggggac tcaatcggac atccgagtaa aaaattattg tcgtttgaat ttgatatggg 180

cttccgtttt caatttcgag cgtgtcgata tattacaaga cataatcgga gtaccgagta 240

agaagttatt gttgtttgca ttaggtacga gcttccgttt tcaattttga gtatctcgat 300

atattacggg aatcaatcag acatccgaga aagaagttat tgttgtttgc attttgttcg 360

agcttccggt ttcaatttcg agcgtctc 388

<210> 9881  
<211> 374  
<212> DNA  
<213> Glycine max

<400> 9881  
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 aacataaaaa gggaaaaggt aatattgtag ccgatgctct ttctcggcgt catgcattac 120  
 tttctatgct tgaaacaaaa ttgattgtgc ttgaatgttt gaaaagcatg tatgaaaatg 180  
 atgaaacttt tggagaaatt tttaaaaatt gtgaaaaatt ttcagaaaat ggtttcttta 240  
 gacatgaagg ctttcttttc aaagaaaaca aattgtgtgt gcctaaatgt tctactagaa 300  
 atttgcttgt ttgtgaagca catgaaggag gtttaatggg gcattttggg gtccaaaaga 360  
 ctctataaac atta 374

<210> 9882  
 <211> 340  
 <212> DNA  
 <213> Glycine max

<400> 9882  
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 tcacccccat gacaaaaaac atgaaaatc caaaaaagt ccttactaca aagactactc 180  
 aaaatgcctt gaaatacaag gctaaaaccc tatactacta gaatggccaa aatacaaggc 240  
 ccaaacgaag gaaaaaccta ttctaataatt tacaagata agcgggctta tacttagccc 300  
 atggggtcaa aatctaccct aaggctcatg agaaccctac 340

<210> 9883  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<400> 9883  
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 caacagtgtg ctccactaga gagacactga atttgggtcc aacaccgcat taaaagtcac 120  
 cgttgtgact cactgatgca atcctacccc cccaagggca ttggatagaa gactccaaaa 180  
 atattggacc agagatgcaa gagaaggccc taaggttctc atgagcctta gggtagattt 240  
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tatTTTTTggg ccttgtatat aaggcttcat aatgtatgta gggTaccctt aaaatgaaag 360

atttttctt 368

<210> 9884  
<211> 281  
<212> DNA  
<213> Glycine max

<400> 9884

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gttactatca agcgaaaaag atattatgtc tgatgggtat ggggaatcat aagattcatg 120

tttgccttaa tgattgtata ttgtacagac atgagtttga agagatgaac aaatgccttc 180

gggtgtgggt atcacgtcac aaaatgaaag atggagatga gtgtagtatt gacccaaaact 240

caaagaaagt tccccagca taggtgatgt ggtatcttct g 281

<210> 9885  
<211> 382  
<212> DNA  
<213> Glycine max

<400> 9885

ttcagtataa ttcagataat atagaattct ctatTTtgta tcagtttgca ggtgcagcac 60

agtctcttgg tgctgggtgct atcttggtta acccatggaa catcacagag gttctgtctt 120

ctatcggtta tgcgtaggaa atgccacctt atgaaagaga aaaaccacat cagtTTaatt 180

tcaaacatgt tgaaactcac acgtcacagg aatgggcagc aactTTttgtg aagTTttaat 240

cctataacat agcttgcatt ctgcttctct tagatcaatg ttcttccgca ctttattttt 300

cttgtgatat agaacatggc gccttacatg agcatattat atcgaccact aaagctagtt 360

tgaaatagag tcaatgggaa aa 382

<210> 9886  
<211> 360  
<212> DNA  
<213> Glycine max

<400> 9886

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 gcccaatgcc agacaaaatt agtggacttt ctaatttatg ttctctggat ttgtcaacta 180  
 actccatgaa tggaacaatt ccccatgggt gcttttcttt gtcacgttg atacaattat 240  
 ctcttcattg gaatcagctt acagggtcaa ttggtgaatt ctcttctttt tccttgcat 300  
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<210> 9887  
 <211> 213  
 <212> DNA  
 <213> Glycine max

<400> 9887

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 aatgtgtgta ccggtgaatg ggagtatgct gatgaaatct tctcataacc acaaatgaga 120  
 tattggatgt tagcatttctg ttctataat gaccacttag aggaaacatt gggctctacc 180  
 taaatacaag aaaatcactt caagtgtatt aat 213

<210> 9888  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<400> 9888

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 ccagagagga cttggattca atcctaagtc tgctggcaga acaaccatga cagaatttgt 180  
 tcttgccaaa aacagcacta gagccacgat gtcacaacat cggctctgcac atcatggaac 240  
 gcagcagaaa aggagcaaaa gaaagaagtg gaggtgtcac tactgtggca agtatggtca 300  
 cataaagccc ttttgcatac atctacatgg ccatccacat catggaactc aaagtagcaa 360  
 cagcagaaaag aagatgatgt gggttccaaa acac 394

<210> 9889  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<400> 9889  
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 ttatctatcc acacccctct attaactaaa ttaacttctt taaaaataat tacggatgaa 120  
 aataacgcaa caaataatca aacattaaac ataattacta ataatatata gatatatata 180  
 tcaggggtgtt acaactctcc taccctttta gaaatttcgt cctcgaaatt taccttactc 240  
 aaacaaggat ggggtgagctt ctgcctctg actttctaat tcccacatgg catcttctct 300  
 tgatgcacct ccccgatca ccttgaccaa cggaatctct ttcctctta ggtgggttgt 360  
 tcgcctatcc t 371

<210> 9890  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<400> 9890  
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 cccatcttta atggagtggg ttaccactac tggaaaaccc gcatgcaaatt ctttatagag 120  
 gcaatagatt taaatatttg ggaagccata gaacaaggac cttatgttcc ctctataata 180  
 gccggaagtg caacaataga aaaacctaga gcagattgga ctgaggaaga aagaagatta 240  
 gtacaatata atttaaaggc caaaaatatt attacatctg ccttaggaat agatgaatac 300  
 tttagggttt caaattgtaa aagtgctaag gatatgtggg atacactaca agtaacacat 360  
 gaaggcacia cagatgttaa aagatct 387

<210> 9891  
 <211> 365  
 <212> DNA  
 <213> Glycine max

<400> 9891  
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 caaaggtaac atttattgat tcgttgatgt tattaacaca taattgttac taatacatat 120  
 gctctagcaa tcagttgcct aatattctaa ttttgaagtt ctttccaggc actgcattca 180  
 atgggagtta gatcgtttga ggaacttgct gatgctgac cgaggagaat agagctagt 240

actgggtcgaa aatacccatt tggtaacat attaaagatt ctctactgtc tctacctcca 300  
 aaagttgatg tgacgcttgc agagattgaa agccatatac aaggaaattc caagctagta 360  
 gtaac 365

<210> 9892  
 <211> 372  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9892

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 aattaactaa tttcaacact tctctttaat tcatattggt acaagacatt actcctagcc 120  
 tatctctcat tctcttaaat ntgatacact tcaaaggctn tgtcaacatg tttgctagtt 180  
 gatcttaaga tctacaaaac tcaagctcaa acttctcctt attcacatga tctctcaaaa 240  
 agtgaaactt ggtctcaata tgtttacttc tcccatgtgt cactgggtgt tgtgccaa 300  
 caatagttaa cctattatta attaacaatc tcattggctt gaccatcttt caaataagtt 360  
 ctttcatcac ag 372

<210> 9893  
 <211> 332  
 <212> DNA  
 <213> Glycine max  
 <400> 9893

tgcttccctc atcgtagtta tccacgagac cataatacca actctgggtcc aatggccaaa 60  
 agattttaat tctccggttt agtaccat atgcatccac atcacctaaa aggatttcat 120  
 aaaaatggcg cctcttctcg gagttactct tgtttttata ttgtttccta ggctcaaaa 180  
 ctctgccagc agtatcagct gatgttgatt ctgaacctaa cgggagcttc aaactgtggt 240  
 taacaatact ttgactagaa gattggaaaa aggacaaacc atttgaacct ttcataaaaa 300  
 atccagtaca gcttggatca aaccttgaag at 332

<210> 9894  
 <211> 410  
 <212> DNA

<213> Glycine max

<400> 9894

agcttcttggc gggacatctt gacttgettt ccaatctgac attcaccact tattctgcct 60  
tcttctattt tcagattggg aatgcctcta acagcacctt tgtcaatgat ttctttcagt 120  
cctcttatgg gcagatgtcc aaatctttga tgccatattc tgacttcac tcctttggag 190  
gatagacatg cggaggagtg actgggttct tgagggtgcc ataggaaca gttgtccttt 240  
gatctgtgc ctttcattag aacttcactc ttctcatttg tcaccaagca ttctgacttt 300  
gtgaagatta cattgaatcc ttcacacac aactgactga tctgtatcaa gattgcagtc 360  
agacccttca ccagcagtac ttgtccaga ctaggaagtc catcatgggc 420

<210> 9895

<211> 388

<212> DNA

<213> Glycine max

<400> 9895

tagcacttgg aatactgacg ctccattgac cagcctgttg atgctatgta aatggtatgc 60  
atctttgggg catgtcctgt tcagatcagt gtaatcgggt cacattctcc atttgtcatt 120  
ggcctttttt accataacga cgttggcgag ccaggtggaa agccgaacct ctttgatgaa 180  
gtttgcatgg aggagctggt cgaattcttc ttgacagct ttaagctgct cttctcccat 240  
cttccttttc atttgttata taggtttggc ctggggacag atagccaatt tgtggcagat 300  
tatgccagga tagatccctg acatgtcaga tgattgcaag gcaaataaat ccacatttct 360  
gcattgcaac gtggcaatgc accggtgc 388

<210> 9896

<211> 378

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9896

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tccctgtcag atacaatact agaaggaatt ccatgcaacc ttattacttc ctgtatgtac 120  
aactccacta gcttatccat tctatacttc atattcactg ggataaaatg agcagatttg 180

gtgagtcgat ctactataac ccacacagca tcatgtccac gactagtctt gggtaaacta 240  
gatacaaaat ccatagatat gctctgccat ttccattctg gaatttccaa tggcttcaat 300  
tctcttgatg gtcgctgggtg ctcaacctta tccttttgac atgtcacaca atangctaca 360  
tattcagcta catctttc 378

<210> 9897  
<211> 340  
<212> DNA  
<213> Glycine max

<400> 9897

tgtctaactc acttccccac tcttccttat ttcttgcacg aagaagataa gccaaactcat 60  
taagaactaa tgggaatgtcc ttggcataat tgaccaccct ttttgataag ttgtcatact 120  
ccctttgatc atcacattgg ttaaagaaat tcaaattgaa aagttcaagt gcttgattta 180  
aactgaattc tctaagcggg tatacctcat cagctttgtt agctttaaga acttgcatac 240  
ctctagttgt tacaatgatt ctactacctg atocaaaatt accaagaggt ccaagtaatt 300  
ttttctagtg atttgaatca ttcacatcat caagaacaat 340

<210> 9898  
<211> 342  
<212> DNA  
<213> Glycine max

<400> 9898

ttcactcgga ggcccgatcc aggcgcataa tatactctaga cgctcgatat tgaacaacgg 60  
aggctatcga gaaattcaaa tggacaatac ttggaactcc gacgtcctat tcagggtgcat 120  
aatatatcta tacgctcaaa attttacaat ggaagctctt tggctattca aatggtcata 180  
actcttcact cgaacgtccg attaacgcgc ataatatatc gacacgctcc aaattgaaca 240  
atggaggctc ttgagcaatc caaatgggtc taacttgtga ctgggagggc cgattcagge 300  
gcataatata tcgtgacgca tcgaattgaa caacggaagc tc 342

<210> 9899  
<211> 282  
<212> DNA  
<213> Glycine max

<400> 9899

agctttgatg taacatttgt agaggttata tgaaacaacg agatgatgcg ctccatgaga 60  
ggttggaatc aatggagaat agagaccata tgaattgctc aagagcttcc attgttcaat 120  
ttcgagcgctc tagatatata atgcgcctca atcggaacctc cgagttaaaa gttttgacca 180  
ttggaaatgc tcaagagctt ccattgttca atttcaagcg ccacgatata ttatgcacct 240  
gaatctgacc tgctagtgc aacttatgac catttgaatt gc 282

<210> 9900

<211> 375

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9900

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tcttcttatt atgactcaca ttggcccatc tccattacga aagggtattcg ctctactcgt 120  
aatcctcacc ctatttataa ttctttaagt tatcaccgtt tgtctccttt gtatagatcc 180  
tttgttttct cattggcctc ccttactatt ccttccattg tccgtgaggc acttgatcat 240  
cctggctgga gacaggctat ggttgatgag atgcaggctc ttgacgataa tggtaactga 300  
gagctggtac ctctatctcc tcggaagacc actgtgggtt gtagatgggt ctacactngt 360  
aaagttgggc ccaat 375

<210> 9901

<211> 381

<212> DNA

<213> Glycine max

<400> 9901

tcceaagttt ttaagttatt cctcattact gtccatttca aagttcccaa agtccattta 60  
acaacttccg ttgtcccatc ggtttgtggg tgacaagtgg ttgaaaataa caatttagtg 120  
cccaacttgc tccacaaagt cctccaaaaa tgcaaatcat caagcctagg tataggatgc 180  
ctatatttaa tgggtgatgtt attaagggct ctacaatcag aacacatgcg ccatgtccca 240  
tcctttttag ggacaaaaat cactgggaca gcacaaggac tcgtactatc tcttacccaa 300

cctttgctaa tgagttcatc cacttgtctt tgaatctcta tgcgttcttg tgaattactt 360  
 ctataagctg gcctattggg c 381

<210> 9902  
 <211> 352  
 <212> DNA  
 <213> Glycine max

<400> 9902

ttgagccaat tcaaacgaca ataacttttt acattgttgt ctgattgagt cctgtcatat 60  
 atcgagagcg tcgaaattga atgttgaatc tatgagccaa ttcaaacgac aataactttt 120  
 tactcggatg tctgattgag tcccgttaata taacgagact ctcaaaattg aatgttgaag 180  
 ctctgagcta attcaaacga cgataacttt ctactcggat gtctgattga gtctctgcat 240  
 acatcgagac gctcgaaatt gaatggtgaa gctctgagcc aattcatacg acaataactt 300  
 ttactcggg tgtctgattg actctcgtca catatcgaga cgctcgaaaa tg 352

<210> 9903  
 <211> 363  
 <212> DNA  
 <213> Glycine max

<400> 9903

agcttaaaca ttcaattttg agcgtttcta tatattacgg gactcaatca gacatccgag 60  
 taaaaagtta ttgtcgtttg aatttgcctc gagcttcaac atttaatttc gagcgtctcg 120  
 atatattacg agactatata agacatctga gtaaaaagtt attgtcgttt gaattcgcctc 180  
 agaggttcaa cattcaattt cgagcgtctc gatatattac gggcctcaat catacatccg 240  
 agtaaaaagt tattgtcgtt tgaattggct cagagcttca acattcaatt tcgagcgtgt 300  
 cgatatatta cgggcgtcaa tcatacatte cgagtaaaaa gttattgtcg tttgaattgg 360  
 ctc 383

<210> 9904  
 <211> 310  
 <212> DNA  
 <213> Glycine max

<400> 9904

agcttagtca ggggaattcat tgtcattatt ccctctgaca taacaaacag aaagagtgat 60  
gagtaccata aagtgtttgt cagaggaaaa tgtgttagat tctccctgc tgtaatcaac 120  
aaatacctgg gcagaccaac tgaaggagtg gtggatattg atgtttctga gcatcagatt 180  
gccaaaggaaa tcaactgccaa acgagtcag cattggccaa agaaagggaa gctttctgca 240  
cggaagctaa gtgtgaagta tgcaatcctg cacaagattg ttgctgcaaa ctgggtaccc 300  
accaatcaca 310

<210> 9905  
<211> 370  
<212> DNA  
<213> Glycine max

<400> 9905  
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cttactggtt tagcccatc ctctaaattt atccaatgca tgcattgtga tgggctaata 120  
ccaggaatgt ctgccagggt ccagcctata gccttcttat gcttcttgag aactgataac 180  
aacttctcct cttgctcctc agtaaagaag gcagatataa ttactggaaa acttttgctc 240  
tcatctaagt aaacatatatt taaatttgat ggcaaaggct tcaattgtgg tgtggatggt 300  
tggtatagtg tagaaagaga tggtttctca gcctgtacct cataaagaaa gtcagaggta 360  
tgtgtacttt 370

<210> 9906  
<211> 374  
<212> DNA  
<213> Glycine max

<400> 9906  
agcttctca cctgggacgg cgtcgttacc gatttccagc tgctcgtccg gcatcctcaa 60  
gggtatgaac aattttatga caaggagaat aatggtggtg gacaccaagt tccatccaat 120  
aacaacatg gccgccacca attgcttgaa gaactgcaca ccaccctc caccatataa 180  
tgccccctt gaatttgta ctggcaatag aagtctacaa agggctggtt ctgctaatag 240  
acctgtgagg agaccacca aaaggccagc cacagcatgt gtgtgaaaca caccaagggt 300  
gtcatctacc tgaacataat attttccaca aaattatggt aagtacaaat tatactaagt 360



<210> 9907  
 <211> 332  
 <212> DNA  
 <213> Glycine max

<400> 9907

agctttgtaa ttatgtaacc gaggggtgcgc atgaagcaga gttcgggtgtc gacgcccaacg 60  
 gtagatgaaaa aggttcggag gacggaggag gcgagtttgg acgacgccgt ttggaggctg 120  
 ggggcgagga ggtagtggaa gtagaggag cgggcttcgg ggggcgcgtg gcaggcgcacat 180  
 agccagaaga ggcgcacatggt gaagacgagg ttgaagaagg tggagaggga ttcgggtgtg 240  
 tgcgagtcca tgatccatgc gatgggctcg ggattcagtt tctggagctg ggaacggggg 300  
 caggtgctat cgtgcgccgt gggggagtgg ga 332

<210> 9908  
 <211> 344  
 <212> DNA  
 <213> Glycine max

<400> 9908

cgcttaacaa aaggcatgtt aagtgggttg aattcctaga gcaattccct tatgttatca 60  
 aacataaaaa gggaaaaggt aatattgtag ccgatgctct ttctcggcgt catgcattac 120  
 tttctatgct tgaacaaaa ttgattgggc ttgaatgttt gaaaagcatg tatgaaaatg 180  
 atgaaacttt tggagaaatt tttaaaaatt gtgaaaaatt ttcaaaaaat ggtttcttta 240  
 aacatgaagg ctttgttttt taaaaaaca aaatgagtgg gcctatatgt tttattaaaa 300  
 aaatgtttgt ttttaacca tcaaggacgt ttaaggggca tttt 344

<210> 9909  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<400> 9909

tcctttttctc ttcttttgaat tccaattggg gccaaactatt tgacattgcc cttgggattg 60  
 ccagaggctc tgtttacttg catgaggaat gttgcacca aatcatccat tgcgacataa 120

agccacaaaa tatacttttg gatgatcaat ataatgctag aatttcagat ttggggttag 180  
 caaagctggtt attgatcaat caaagccgca ctgaaactgg aattagagga acaaaagggt 240  
 atgttcacc agattgggtt agaagtgcac caatcactgc taagggtgac acttatagtt 300  
 ttggtgtggtt gttactagag atcatttggt gtagaaagaa ttagaaaaag gagcttgtaa 360  
 atgaagaaaa gggatattga ctgat 385

<210> 9910  
 <211> 365  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9910

ttgagccaat acaaacgaca atatcttttt tctcggtatg tctgantgat tcccgttaaca 60  
 tatcgagacg cttgaaattg aaagctgaag ctctgagcca atacaaacga ccataacttt 120  
 ttactccgat gtctgattga gtcccgtaac atatcgagac gctcgaaatc gaatgtagaa 180  
 actgtgagcc aattcaaacg ataataactt ttttcacgga tgtctgattg agtcccgtaa 240  
 catatcgaga ctctccaaat tgaatgtcga acctctgagc aaattcaaac gacaataact 300  
 ttttactcgg atgtctgatt gagtccccga acatatcgag acgcttgaaa ttgaatgttg 360  
 aatct 365

<210> 9911  
 <211> 396  
 <212> DNA  
 <213> Glycine max  
 <400> 9911

tcagctttca attttaagcg tgctgatata ttactgttac tcaatcagac attggaataa 60  
 aaatcaattg tcgtttgaat ttgctcagag ctctcttttt caatttcgag cgtctcgata 120  
 tattacggga cataatcgga catcggaata aaaagttatt gtaatttgaa ttgctcaga 180  
 gcttctgttt tcaatttcga gcgtctcgat atattatggg actcaaccag acatccaagg 240  
 gaaaagttat tatcatttga attggcttag ggcttgcgtt ttcaatttcg agcgtgtcga 300  
 tatattatgg gacttaaccg gacatccaag taaaaattta ttatcgtttg aatttgctct 360  
 gagcttcttt ttcaatttc gagcgtctcg aaatat 396

<210> 9912  
 <211> 359  
 <212> DNA  
 <213> Glycine max

<400> 9912

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 atattggtaa tcaattacca gcgtatcatt gaaatgcaaa ttaaattgtg aagagtcaca 120  
 tcttttcata aaatgctttg tgtaatcgat tacatggcta tggtaatcga ttatcactga 180  
 caagtcttga ataaaaagtc aagagatgta actcttcaaa tggttttctc aaagattttc 240  
 tcacggatat aactcttcca atggttttct tgaccagata tgaaaagtct ataaaagcaa 300  
 gaccttgact tgcatttcaa taactctgtt agaacaactt ttagaatata ttgaacaac 359

<210> 9913  
 <211> 357  
 <212> DNA  
 <213> Glycine max

<400> 9913

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 actatggcat cattttctgc gctaaactgc tgggagttgg aggccatctt ctcaattaaa 120  
 tttctggctt cagcaggagt catgtctgca agggctccac cactggcagc atctatcata 180  
 cttctctcca tattactgag tcttccataa aaatgttgga gaagaagctg ttctgaaatc 240  
 tgatgggtgag ggcaactggc acatagtctt ttaaatcgct cccagtactc atacaggctc 300  
 tctccactga gttgtctaata acctgagata tctttctga tggctgtggg cctggaa 357

<210> 9914  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9914

ntaagatttt caaggctatg gttgacaaat agtctgggtt gtatgttaga gctttgagaa 60  
 tagatagagg tgggtgaattc ttatcaaatg aattcattac tttttgtgag gagcaaggga 120

taagaagaga attgattgct ccatatactc caaagaaaaa tggagtggcc gagaggaaaa 180  
 acagaattgt gggtgagatg gcaaggagta tgatcaaagc tagagggtgtg ccaaacagat 240  
 tctggtaga agctgtagca actgcagtgt acattttcaa tgtttctcat accaaagctg 300  
 tcatgaacat gacaccactt gaagcttgga gaagaaagaa attgtctgta agtcatttga 360  
 gaatttttgg ttgtacaaca tatgcattag ttgatttatg gactaagttg gatgataaat 420  
 ctatcanatg tgtatttta 438

<210> 9915  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<400> 9915  
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 ctatcagata ctatgttaca tggcacacca tgtaatatga caatctcact tatatacagg 120  
 gaggtcaact caacttctcc aaggaaaata tgatattaat gggaatgaag tgagcagact 180  
 tagtcattct atcaacaata acccagatag aatctaaacc tctacggtgt ctatgtagtc 240  
 ctaccacaca atccatggaa ataactatccc acttccactg cgtatctcta gggttataac 300  
 atcctgaagg tcttgatgtt gatctatact tctgacagac tacgcatgat agacaaaaa 360  
 ctaacctctt tctatgttgg ccaccaatca tcattttaaa tctgactctc ttgaaca 417

<210> 9916  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9916

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 ttggacatct gttgagtatg taaacaactg tgtagactgc ttcagctaag aatgtgttag 180  
 atagtctctt ctctttgagc atcgatctag ccattttcgt aactgtgcga ttctttctct 240  
 cggacactcc attttggtga ggagaatatg caactgtaag ttgccgctca atgccttcat 300  
 ccttacaaaa tctttcanac tcgcgagagg tgtactcttt gccgcgatta cttgttagta 360

cttttattcc gtttcca

377

<210> 9917  
<211> 330  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9917

agcttgaagt tgagcacgtg gtacctnggt tgacttttga tttttctggc gcattgaagc 60  
ccaaatatca cgagcagttt ctttgttcaa cgatagtctc caagattgtg cgatcaatgg 120  
cttggaagaa atagttcttg gctttaacat ctttgagttt gctatcatca gctgctttac 180  
tttgctcggc agtgggaattg gccggagcta ccacgattcc atcttcaata atgctccaat 240  
actccttaga acgaaggaga ttctccatca acatggacca atgatcatac cgaccattca 300  
aattgggaat agaggggttg agacaggatg 330

<210> 9918  
<211> 334  
<212> DNA  
<213> Glycine max

<400> 9918

taataagagg catgctaagc gggtagagtt ttttagattct ttttcatatg tcatcaaaaca 60  
taaaaagggg aaagggaatg tagtggtgta tgcactgtct aggagacatg ctttacttgc 120  
tatgcttgaa actaaactgt ttggtctcga gtctttgaaa gacatgtatg tgcattgatgt 180  
ggacttttgc gaaatttttg ctgcatgtga aaagttttct gaaaatgggt actataggca 240  
taatggatc ttgtttagag caaataaatt gtgtgtgcct aagtgttcca tttagagatt 300  
gcttgtgagt gaatcacatg aggggggggg gggg 334

<210> 9919  
<211> 388  
<212> DNA  
<213> Glycine max

<400> 9919

agcttcttag tctcagatga tgcagctgag tttgtttcta cctcatgcac tcttctaatt 60

actatggcat catttctggc gctaaactgc tgggagttgg aagccatctt ctcaattaaa 120  
 ttcttggtt cagcaggagt catgtctcca acggctccac cactggcagc atctatcata 180  
 cttctctcca tattactgag tcttccataa aaatattgga gaagaagctg ctccgaaacc 240  
 tgatggtgag ggcaactggc acatagtctt ttaaategct cacagtactc atacaagctc 300  
 tctccattga gttgtctaata acctgagata tctttctga tggctgtggt cctggaagca 360  
 tggaaaattt tttctaagaa tattctct 388

<210> 9920  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<400> 9920  
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 gacctttgcc cttccatgta gcaacctgga gcaattgagc agcctgaagc ttatgtctgca 180  
 aatatttaca atagacctcc tcaacctcag cagcaaaatc aaccacagca gaacaattat 240  
 gacctttcca gcaacagata caacctgga tggaggaatc accctaacct cagatggctc 300  
 agccctcagc aacaacagca gctgtctct tcttccaaa atgtgtctgg cccaagcaga 360  
 ccatacatc ctccaccaat ccaacaacag caacaacccc agaaac 406

<210> 9921  
 <211> 365  
 <212> DNA  
 <213> Glycine max

<400> 9921  
 agcttctggg ataaatcctc gagttttcag ttccaaaact cccagtgttt cattggaatt 60  
 aggtgtaacc tacagcattg acaaattatc tcataaatat atcaattcaa ggttcgttgt 120  
 ttgtttctca cgaaacttat tcaccattgg aaacaaagag gatttacctt tctccaacta 180  
 tgaccaagaa attcattcac agctatagca ttctgtccat acatcagtgg tgaggaccag 240  
 taaccccaca gaaaccattt gtgcacattc tctggcacat agaacaaaac tatcataata 300  
 aaggttcatt acagtaacca actttgaagt tacatgtacc atttcttacc tcgggaaatc 360

<210> 9922  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9922

tccatcaata ggattgcac atccctcttc ccccttttaa tgatttgacc tcaaatccag 60  
 aggttcaaga aactttgggc ttcttccttc cacttgtaaa aagaataaaa acatatatat 120  
 tagtggtgtt ggggtatgta gagtagggta aggtctgaaa atcccttttc tgagcatctt 180  
 cacatgaggg aacatgggtc ctcaccaact caatcagtgg tgctgcaagt atagaaaaat 240  
 atgggacaaa ccttttgtaa aagtttgta agtcatggaa gcccttaatt tcccttatac 300  
 ttgggtggagt gggccactca aaaatgattt ttattctctt aggatccgtg gaaaccctt 360  
 gatcactatt taaaaaatta aggaaagtaa tgcaataaaa catacatntt tctgtatttt 420  
 catgtnattt actcct 436

<210> 9923  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9923

agcttctggt gggacatctt gacttgcttt ttcttcttac attcaccaca gattctgcct 60  
 tcttctatct tcagattgng gatgcctcta acagctcctt tgtcaatgat ttcttctatg 120  
 cctcttaagt gcagatgtcc aaatctttga tgccatattc tgacttcac ttctttggag 180  
 gatagacatg tggaggagta gctgggttct tgaggtgtcc ataggttaaca gctgtccttt 240  
 gatctgctgc ccttcattag aacttcactt ttctcatttg tcaactaagca ttctgacttt 300  
 gtgaagttaa cattgaatcc ttcacacac agctgactga tgctgatcaa gttagcagtc 360  
 agtcccttca ccaacagtac t 381

<210> 9924  
 <211> 436  
 <212> DNA

<213> Glycine max

<400> 9924

gaccttaaat ctccagctttg cagctggaat attatcctat ctccgatgtt atgggtgggt 60  
cccgccagg tagtcccga gaagactggc ctccagctga tcagaaatga gaaggaggag 120  
ttgattccta ctccagctgca gaacagttgg agagtctgca ttgactatag gaggtgaac 180  
caggttacca aaaaggacca ttttccctg ccattcattg accagatgct tgaacgcctg 240  
gcaggtaaat ccctactctg tttccttgat gggttttctg gttatatgca aattactatt 300  
gctcctgagg atcaggaaaa gaccacatcc acctgcccct tcggcacttt tgcttatagg 360  
aggatgcctt tcggcctgtg caatgcccct ggtatcttcc agcagtgcat gatttagtatt 420  
ttcagtggat ttttag 436

<210> 9925

<211> 419

<212> DNA

<213> Glycine max

<400> 9925

tcaagaatta tggcctcatc aaactacttg tttccctggg aaattctata aatagacctc 60  
ccgtctttaa tggagtgggt taccactact ggaaaaccg catgcaaacc tttatagagg 120  
caatagattt aaatatattg gaagccatag aacaaggacc ttatgttccc tctataatag 180  
ccggaagtgc aacaatagaa aaacctagag cagattggac tgaggaagaa agaagattag 240  
cacaatataa tttaaaggcc aaaaatatta ttacatctgc cttaggaata gatgaatact 300  
ttagggtttc aaattgtaaa agtgctaagg atatgtggga tacactacaa gtaacacatg 360  
aaggcacaaa agatgttaat agatctagga taaacacttt aactcgtgaa tatgaactt 419

<210> 9926

<211> 385

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9926

tcttagttnt agatgatgca gatgatTTTT gtttctacct catgcactcc tctaagtact 60  
atggcatcat ttctggcgct aaactgctgg gagttggaag ccattcttctc aatcaagttt 120



ctggcttcag caggagtcac gtctccaagg gctccaccac tggcagcacc tatcatactt 180  
ctctccatat tattgagtc ttcattaaaa tattggagaa gaagctgctc cgaatctga 240  
tggtgagggc aactggcaca tagtttttta aatctctccc agtattcata taggctctct 300  
ccactgagtt gtctaatacc tgagatatcc ttctgatgg ccgtgggtcct ggaagcangg 360  
aaaatgtttt ctaagaatac tctct 385

<210> 9927  
<211> 384  
<212> DNA  
<213> Glycine max

<400> 9927  
agcttcctta agaagatcct aaagtagett gagcttagct acacatacct ctctaatagc 60  
taagctcacc tccttgagat gagaagctag agcttagcta cacacccta taatagctaa 120  
gtcaccccc atgacaaaaa acatgaaaat acaaaaaaat gtccttacta caaagactac 180  
tcaaaatgcc ccaaataca aggtataaac cctatactac tagaatggcc aaaatacaag 240  
gcccagacga aggaataacc tattctaata ttacaaaaga taagcgggct catacttagc 300  
ccatgggctc gaaatctacc ctaaggctca tgagaaccct agggccttcc cttggatctc 360  
tagccaatct acttgagtc ttct 384

<210> 9928  
<211> 438  
<212> DNA  
<213> Glycine max

<400> 9928  
cgagaatgga gaattgcact aagcaatcac tacgcattgc ttctaactcg aagggtggagg 60  
acacatgaac gaaaacacaa ttcatggggc tccgaaaaag gggttgagaa tggagaatta 120  
cactaagcaa tcactacgca tagctccaaa ctggaagggtg gaggacacat gaaagataac 180  
gcaattcatg gggctccgaa aagattgaga atggagaatt gcactacgca atcactacgc 240  
atagctccaa acgcgaagggt ggaggacaca tgaatgaaaa cgcaattcat ggggtccga 300  
aaagattgag aatggagaat tgcactaagc aatcactacg catagctcca aactcaaggt 360  
tgaggagcac atgaacataa cgcaattcat ggggtcccg aaagattgag aatggagagt 420

ggcactaagc aatcacta

438

<210> 9929  
<211> 439  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9929

tcnccataac cettatagaa agtctcttca atgaaattaa ctgtatagta catgatcgnt 60  
cactcattaa gcgagaagta caaaataaat cacattgatt ttttgttcaa aagtaaccaag 120  
taaaattttc ggcccttctc tgttctctgt ccttatctcg ggtataaggt tttattcaat 180  
agagaaccct ttcttctgtg cctatacgaa ttgatattat tccattccaa tttctattgg 240  
taactcacia gaaaaaactc aaattgacaa attagagcga gctcatccat gcagtcatgc 300  
aatcaagca tcttcggcta taatggaaaa ctatctgcca gaagagccca ttacaaccaa 360  
ttgagttaac aaccaaataa ataaaacttg agctaaaaac caaataaaca atacactgca 420  
agcagttacc gaaatcacc 439

<210> 9930  
<211> 418  
<212> DNA  
<213> Glycine max

<400> 9930

aaactcagct atgagggtgct tgactcctag cctcgttggga agttttatat tcccagagctt 60  
tcacttgggt gtcgttcttg gtgacaattg catcaggag gccataccct catatgaggt 120  
gttacgaggt aaacttcgcc acctcgttgg ctatgatttc tcatagtggc cttacctcaa 180  
tctacttggg gaagtagttg atagcgacta gtaaatattt gattgctcct agggcctttg 240  
gctatagtc cattatgtcc attccacaca tggcaaagag ccaaggggag cttaaagctgt 300  
ggagattgtc aggaaggggt cgtggaatgc ttgtaaactc ttagcatcgt ctacatttct 360  
ttgtgaaatc aagggtgtcc atcctgagtg tcggccaata gtagctggca cacaccac 418

<210> 9931  
<211> 421  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9931

totaatgtct ctccaccaat gagaataggc cttcttttct ctattatatt gaaattctga 60  
ccagccacca tatttagagg ttaaaactct aacctatagc tgatgctgat cagatgcaaa 120  
agcccataac catctacca acaaagctaa gttgaatttg gagatatact ttatccccag 180  
tccccatca gacttaggca aacaaatate atcccatttc acccaaggga tttttttatg 240  
atcaatgtct ccacccca gaaaattcct ttgaagggat atcagcttat tgacaacctt 300  
ttgagggtatt ttaaagaaag aaaggagata aattggggagg gcattgagga cagaatntat 360  
cagagtaate tccccgcca tggatatatt tttctgagcc catntggcta atcttgattt 420  
g 421

<210> 9932

<211> 384

<212> DNA

<213> Glycine max

<400> 9932

ggatcttaag caccgcggct gcagctgaag caactagatg cattgtttat ttggtaaccc 60  
agttggcctt gaatcagaaa tctatacttg tcgcaagagt ctgtggttta tgctcctctg 120  
ctgaccacca tacagacctt tgccttcca tgcagcaacc tggagcaatt aagcagccta 180  
aagcttatgc tgcaaacatt tacaatagac ctctcaacc tcagcaacaa aatcaaccac 240  
agcaaaacaa ttatgacctc tcagcaaca gatacaatcc tggatggagg aatcaccccta 300  
atctcagatg gtctagccct caacaacaac aacagcagcc tgctcctttc ttttccaaat 360  
gtgttgcccc aagcagacca taca 384

<210> 9933

<211> 458

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9933

ccggatcctt aagcacctgc ggctgcagct tgatgcaaca ttgnagaggt tattatcattc 60

gagatgatgc gctccatgag aggttggatc aaatggagaa tagagatcat aatgaagaag 120  
 aaaggaggag aagagggaat gatggtgttc ctagacaaaa ccgaattgat ggtattaaac 180  
 tcaacattcc tccattttaa ggaaagaatg atccggaggc ctacttggag tgggagatga 240  
 aaatagagca tgtttttctc tgcaacaact atgaggagga ccaaaagggtg aagcttgccg 300  
 ccacggagtt ttccgactat gctcttgtgt ggtggaacaa gctacaaaag gagagagcaa 360  
 gaaatgaaga gccaatggtt gatacatgga cggagatgaa aaagatcatg aagaagcggg 420  
 atgtgccggc taagtactca agggacttga aattcaag 458

<210> 9934  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<400> 9934

tccctcatca tgaaattttc tttcttgaac catatttggt gtatcaccat tccacaactt 60  
 tttcagatca tcaatcaaa gttgtaaata aacatcaata ccaattgttg gattaaatgg 120  
 gttaggtacg acacaactca caaacatata agtttttagtc atacatattt ctagaggaag 180  
 attgtatggg gtaacaatga ttggccaata agaataagggt gaagacgatg cttaaataata 240  
 tgggttaaat ccatttgtgc ataaaccaag tcgcacattt tgcgtatcaa tagaaaaatc 300  
 tggatgtacc cgttcaaagt gcttccagac ttcatagtta gagggatgac ttaacatgcc 360  
 tgaagatctt ctattctcat agtgctatgt catttcgctt acagtttgca tgggtgcaaa 420  
 ta 422

<210> 9935  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9935

agcttctaag gttgataggg caattgtgct tggnttcttg gatgtccaag ataccagtga 60  
 ttntccaagg aattgacaag caccactggg gccttttctt tctacttaac caccagcaaa 120  
 atcaatatca caatatccta caaaattaaa ctcagaccct tttcttatag gccatgatta 180  
 ctagttccaa tatgatattt taaaattctt ttaatttcag taacatgaca aatttttggg 240

caagattgaa atttttcaca aagacaaaca acaaacacaa tatctggtct actggcaatt 300  
 aaatataata aggaaccaat catacctcta tacttatntt ttgaagtatc attaccttcc 360  
 tcaccccat caatgaccat g 381

<210> 9936  
 <211> 428  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9936

taagctcctt caactgcaca aggcctctta tatttgtgag tacccttatg gaaccttcac 60  
 ccgatgaaga cactaacaaa aacttatctt ctcccttttg gacaaagtat gacaagttgg 120  
 gggcaagtaa attttcttcc catcagacct tggatgcaac tgtgatcgta tccccatctc 180  
 agctagatct tgacgagtat tcaagccgtc ctccatcttg tcttgaatgt taaggagcgt 240  
 cccaatcaca ctgtcacata catttttctc cacatgcata gcatcaatac aatgtctaac 300  
 gtctaaatca gaccaatagg gaagatcaaa gaaaatggac atcttcttcc atatgcaagt 360  
 catactttta tcttctttt gggctcttcc aaatacagta ttaanggtgt gaaccactg 420  
 gtatacct 428

<210> 9937  
 <211> 436  
 <212> DNA  
 <213> Glycine max  
 <400> 9937

tgtcgggttc agttataatt aagcgtctgc gttatcttat ggactgagcg aaaaggctca 60  
 cgtcatcaaa tactacgcat cttttaaagc acacagcgag gatcggaacc tcaacctac 120  
 gttcttttaa aagactgtga ggagaaaatc acagaggaca ggaatccctg ggggaaacca 180  
 agaggaacac acaaaaataa gaacatgccg caacttctt aattgcccta gatcttaagc 240  
 gtaatatcgc ttgacaacgt cggagttcac gggatgaagg agctctcat catccatgtt 300  
 ggcgagcact acggccctc cggagaaagc tctttttacg acgaaaggcc ctccatagtt 360  
 cagggtccac tttcccttat tgtctttgag ggcttgggag actatcttcg gcaccaagtc 420

<210> 9938  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9938

agctgtcaca tggatgnccg anctttttct tattatatcg agacgctcga aatcgaacaa 60  
 cggaagctct cgataaatc gaatggatcat aacatttcac tcggatgtcc gattcgggga 120  
 cataatatat cgagacactc gaaattgaac aacggaagct ctcgatgatat tcgaatgctc 180  
 ataacatttc acacggatgt cggattcggg gacataactc atctagactc tcgaaattga 240  
 acaacggatg ctctcgagaa attcgaatgg tcataagatt tcacacgaat gtctcgattcg 300  
 gggacataat atatcgatac gctcgacatt gaacaaccga agctctctag aaattcgaat 360  
 ggtcataaca tttcac 376

<210> 9939  
 <211> 339  
 <212> DNA  
 <213> Glycine max

<400> 9939

agcttategt gacatctgaa ctcgatgtat gtcattgtctc catgtggggg tagctgaaac 60  
 atggatgcta ggggtggcaag cacattaccc atctgatttt cctctctagg aatgtgggtg 120  
 aaagagacct catcaagaac tcaatcagtt tcttgatgta ggctgatag ggtatcaact 180  
 tgtgatccct atgttcccat tctccctca gctggcgaat taccaaggct gagtctctgt 240  
 acactttaag caatttgaca ttaaagtcaa ttgccacttg gattccgagg gcacatgcct 300  
 catactcagc catattatc gtgcaatcga agcccaatc 339

<210> 9940  
 <211> 441  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9940

tctagaagtt ggaatcttca tttt gatgaa attatattat attttggatt cataaagaac 60  
gaagatgaac cttgtgtcta caagaagggt agggggagta ggggtgttca tgggtgtggt 120  
tggttcgggt tttaggcaaa aagtcaccca aaccaacat aaaataaaga tgtgttttgg 180  
tttggctcag tttaaatata acatcaaate taaacaaaac caaaccaate atatttcagt 240  
tttgcggttt ttttattttt gtaatctatt atcctaattt aaatctgtca actaaactta 300  
cataattatt atatatgcta tataatttta aaaatgaaat ttattttttat taaattttgt 360  
ttaaaatggt ttaactaaaa attatcttca cttctattta gcattgatan taaaataatt 420  
taccaactct tntgtaaca t 441

<210> 9941  
<211> 422  
<212> DNA  
<213> Glycine max

<400> 9941

tgatgccaaa tggcccatgc tttacagcat caacattgct ttattgtgag cagaactctt 60  
cctcagcttc tgaagccttt gtagtcttat ttatttctga gtttgaacac cactctcctt 120  
ggaccaaccc attagatgat cggttaagaa tcaaatacct aattttctcc agaaccacat 180  
caccttcgcc aaatgggcgc gcaaatgcgg ctccagtttc cagcattgta tcatagtgtg 240  
acatatcaag caattgggat tcagatggat cagtgtccca gaggataagc cacattgctg 300  
aagaacatta gtagtttttt tggtaaattg tcccatcctc taacacatta ctccataaag 360  
gatcttgtaa gaatcatcca ggggaacct aataaatgaa agacaagaga aactaataac 420  
ta 422

<210> 9942  
<211> 435  
<212> DNA  
<213> Glycine max

<400> 9942

ttttattgta atcttgaaat tcaggacaac actctgattt ttgaaatttt cgggataaaa 60  
atggtcattg accagtcctt tttccatgac ttaaccaaata tacctagtga cgggtgtacca 120  
tttgaaggta cactgaatga cgactggaaa ttgattttct ctgcccatga tgcccgcag 180

ttggttttga ccaacaatgc ggatatgacc ggacgtcttc ttgccgggtc attggctttt 240  
gaaagccgca tcccttacta ttttaattgtg cgtattttgc ttccacggtc ttccaacctt 300  
gcccagggtt ctgaggaaga tctaattatc atgtgggcct ttcatacagg gcgtcaactt 360  
gactgggcac acttagtcag atatcgcatg cataaggcat tgtgattaca tgtccacta 420  
ccatatccac agctt 435

<210> 9943  
<211> 425  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9943

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gcaagttgct gcagcccaga tacgcacact gctatataaa catgaaggct gcacgagttc 120  
tgtaccaagt ccgggattga agagtatttt tgtgagtttt gggacttgag tgttttgtga 180  
gccaccttga tgtcacccta acatcaagtg ttggacctga gtgtgtagag ttgatctcta 240  
ttgttcagag agcaatctct ggtgtgtatt tgatttaact gtaaacacgg gagagtgatt 300  
gataggagtg gagaggggtt ctcatatcta agagtggctc ttaggtagag gttgcacggg 360  
tagtggttag gtgagaaggt tgtaaacagt ggcttgtaga tcttctaact aacactatct 420  
tagtg 425

<210> 9944  
<211> 400  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9944

agcttctata gaaggttcgt tctattttnc tctacaattg catcacctct caatgagttg 60  
gtgaagaaga atgtggcatt tacctgnggt gaaaaacaag agcaagcccc tgcctttgctt 120  
aaagaaaagc ttactaaggc acctattcta gctcttcttg actttttctaa aacttttgag 180  
ctagaatgtg atgcctctag agtgggagtt ggagctatat tgttacaagg tgggcacctt 240  
attgcttatt ttagtgaaaa acttcatagt gccactctca actacccccc ttatgataaa 300



gagctntatg ccttaataag agccctccaa acttggaac attaccttgt ttccattgga 360  
attgtcattc atagtgatca tcaatcactt aagtacatta 400

<210> 9945  
<211> 344  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9945

agcttcagat tcggatccat aggactatct ttatgtctac aatnctgcat gcctgtctcc 60  
tccaaaatgt cgagggcgta ctctcttga gagatcacaa taccatctcc tgactgagcc 120  
acctcaatac caaggaagta ctccaatat cctaagtctt tggctctggaa atgactaaat 180  
aagtgtctct ttagctgaat aatcttagaa gcattcattcc ctgtaatcac tatatcatca 240  
acatatacta tcaagtaaac acattttcca ggggatgaat gacaataaat aacagaatga 300  
tcagcctcac tacgtttcaa cccaaaaagt tgaacaatat gact 344

<210> 9946  
<211> 433  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9946

agcttcaaga aaaatggctc tagtttactc tttattttcca gaaggaaatt ctatcaatag 60  
acctccaatc tttaatggag aggggttacca ctactggaaa acccgaaatgc aaatttttat 120  
tgaggcaata gacttaagta tttgggaagc catagaaata gggccatata taccaccac 180  
agtagaaaaga attacaatag atggtagcac atcaagtga agcataacaa tagaaaaacc 240  
tagagataga tggctctgaag aggatagaag acgagtacaa tacaatctat aagccaaaaa 300  
cataataaca tctgccctgn gaatggatga atatttcang gtttcaaatt gtaagagtgc 360  
taatgaaatg tgggacactc tancantaac acatgaagga actacacatg ttaaaagatc 420  
tangataaac aca 433

<210> 9947  
<211> 401  
<212> DNA

<213> Glycine max

<400> 9947

agctcgcaat catttggtat aaaaatcacc ttgtcttgty gctctacaca aggggtgactg 60  
caaccttcta aaatagtatc tccttcatcc tattaataac aaaatgacaa tgttaaattgc 120  
tattcgtaaa aagatccctc caacaaaac aagggataaa cagagaagga aggtaaatgc 180  
tagaagaaaa gaatgtagta attgtgaaaa caacaaatta agtaccaatg aagtgtgtc 240  
atgccttgty tagggagtag gacaactaga agccaaatca acaaatctca actatagatt 300  
cctatccatg tacattctct ataaaaacatt catggttagt gtggttctac taaattgtgc 360  
atgacaagag tatattcatt agacatctaa atggaagtta t 401

<210> 9948

<211> 338

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9948

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caaggatga ccatngaat ttctcgagag ctccgatgt tcaattgcga gcgtctccat 120  
atattatgcg ctagtatcgg acctccgagt gaaaagttag gaccatttga attgtgaag 180  
aacttccatt gtacagttcg agcgacacga tattttacgc gatcgaaacg gacctctgtg 240  
tgacaagata tgaccatttg aatatctcga gagcttccgt ggttcaattt cgagcggctc 300  
gatactttat gcggctgaat ctgaccttcg agttaaaa 338

<210> 9949

<211> 328

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9949

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cggaagtccg attcatgcgc atcacatata gagacgctcg aaattgaaca acggaagctc 120  
tcgagaaatt caaatggcca taacttgcca ctccgaggtc cgattcaagc gcataatata 180

tcgagacgct tgtaattgag caacagacgc tttctagaaa ttcacaggga catcgctttt 240  
 cactcggatg tccgattcag gcgcattcaca tatagagaca ctcgaaattg aacagcggaa 300  
 gctctcgaga tattcaaatg gtcataac 328

<210> 9950  
 <211> 422  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9950

tgttagtgtg tgtttaaatg tctaataataa aaganatttt atgtaataat gtttctttga 60  
 agaaaaatttt atcagtgaat ataaaatatt ttgaatatga atttttagt atttttttaa 120  
 tttagattagg ttggtgttaa tgatttatta gtgtgttaat aattcatgaa cgtttcaact 180  
 ttcatttaaa aaaattagta gatcatattt atttgaagaa agtattttga gtatgaaatt 240  
 tatttttaata tgaagttgta gtattttttt aattagatta ggttcatttt ttgtgttaa 300  
 aaattgataa gcgttcaagt tgaaagtgtt atttgatgat gttttgttgt ttcttgtatc 360  
 atatttaatt taatatattt gtagtaattt tgtaattacc tatntttcat ttgaagttat 420  
 ta 422

<210> 9951  
 <211> 456  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9951

agcttcaaga aaaagatggc ctacagcaaat ttcttatttc cagaaggga ttctatcaat 60  
 agacctccaa tctttaatgg agaggggttac cactactgga aaacccgaat gcaaatTTTT 120  
 atcgaggcaa tagatctaaa tatctgggaa gccatagaaa tagggcctta tataccacc 180  
 acagtagaaa gaatttcaat agatggtagt tcatcaagta aaagcataac catagaaaaa 240  
 cctagagata gatggtctga agaggataga aaacgagtag aatacaacct anaagccaaa 300  
 aacataataa catctgcctt aggaatggat gaatatTTTA gagtttcaaa ttgtaagagt 360  
 gctaaggaaa tgtgggacac tcttcgatta acacatgaag gaactacaga tgttaaaaga 420

tctaggataa atgcactaac tcatgagtat tgaata

456

<210> 9952  
<211> 435  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9952

tgataggtaa ggactctatt tgtgactcaa aattatttct agttcaaact agcttttcta 60  
tcttatacag ctttttgta tccaactgaa tgcttattat taagcaggga tttgatgaat 120  
ccaatattgg agaaagggca taacagagtt cctgtctatt atgagcagcc tacaatatatt 180  
attggacttg ttctggtatg taattatgca tacaatcaact tatttttctt tattccttca 240  
gatttgaaca atcattatct gctatgtgaa aacttataaa aaccacaaac agtatgagac 300  
tatttttctt aagcttcaac ctgttaactt gctttccatc aagatgattt gcacaagtta 360  
attatttttg tctgttcgac caaaactatg ttgctagggt ctgataaacc ctaagttaat 420  
attaattaat aattt 435

<210> 9953  
<211> 473  
<212> DNA  
<213> Glycine max

<400> 9953

tgacgtaagc tccattggag cttgtaggcc taggatcttc ttcatttatg gattcctttg 60  
cttcttggaa gatgaatggc agcggaatgg agaaggaaga gagagaggag acgccacttc 120  
aaggagaaga tgagtctaga agaagctcac ccccatagga ggccatggat aagagcttgg 180  
aggaagaagg agatgaatga agggagaggg agagaaaagc atgaaatttt gtgctctaag 240  
agagctctga aatctgaagt ttaattttca aatgatcaaa gttcaaaaaa tgcacacata 300  
tggcctctat ttatagccta agtgtcacac aaaattggag ggagatttga atttctattc 360  
aaatttctact taaatttgaa attgaatttg tggagccaaa ttttggagcc aaaattcact 420  
aatataatta aggaatttta actatgggtc agccactaa ttcaagatca agt 473

<210> 9954  
<211> 517

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9954

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tgacaattga gtggtatattt gtttcacata acagggagaa tgagcagcta tccaagtatg   60
gtgacaccaa aactgctcga agcattatgt tgatagaact gaaaaaaactc atagaggcaa  120
atcctctttt ccgtgataag cttatcttcc ctacccttaa gtcacaaaga ctgcgaactt  180
tgatcaatca aaggtatgtg tgattaattt ctaccaactt tatctatcta ttttgccatg  240
ctcttttcatt cacatagttg ggctctgctt tttgacccat atgtcgttat gggaaaaatg  300
aaaagtaaat catgttgatt tctggacatg tagtatatnt catattttgt cagtggtaaa  360
tgataagaat ttggaaggtt ttctggctct tttttaattc attcttgtaa atttgaattt  420
ttagcgtgct gtgccttgcc tattttttaa tcagtgaatt tatctatgcc ccttaatcat  480
gcagtctaaa ctggcagcat cagctctgca aaaaccc                                517

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<210> 9955  
<211> 450  
<212> DNA  
<213> Glycine max

<400> 9955

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taaccccatgg aagctcctaa tatctccac tctttttgtg gtgggccatt ctgggatggc   60
cttgattttc tcaaggtcca cttggacccc atttctacca actacaaaac ctaagaaaac  120
tatattatct acacaaaagg tacacttctc tatatttgca tagaagggtg ttttcctaag  180
gactgaaaga acttgctcga gatgtcctaa gtgatcatct agcctcctac tatacactaa  240
aatatcatca aaataaacia ctacaaatct acctatgaaa tcccttaaga catgatgcat  300
aagcctcatt aaggtgcttg gtgcattagt gagcccaaaa ggcacacta gccattcata  360
caaaccaaac ttggtcttga aagcaattat ccaactcatca ccttttttca tcttgatttg  420
gggataccac ttttaaaaac aaattttgaa                                450

```

<210> 9956  
<211> 482  
<212> DNA  
<213> Glycine max

<400> 9956

tatagaatat ataataaaag aactatgact attgaagaat ctattcatgt ttcctttgat 60  
gagtctaatag ctattttctcc aagaaaggat attttagatg atgttacaga atcttttagaa 120  
caaatagcaca ttcattggaca agattctaaa ggaagaagtc aaatcaaatg atgaacttcc 180  
aaaagaatgg aaagcttcaa aagatcatcc ccttgacaac attattggtg atattctcaa 240  
aggggtaaca actagacatt ctcttaaata tttatgcaat aatatggctt ttgtgtctat 300  
gattgaacct aaaaatataa atgaagccat aatagatgat cattggatag tagctatgca 360  
agaagaacta aatcagtttg aaagaacaa tgtgtgggaa ttagttaaaga aacctgaaaa 420  
ctacctatc ataggaacaa aataggtatt taggaataag ttagatgaac atggcataat 480  
ca 482

<210> 9957

<211> 530

<212> DNA

<213> Glycine max

<400> 9957

agcttgaggg atcaatatac aggatcatct tccttgtatt taagcaaata attttttaat 60  
taaagatctt tgaatgttgt tagaaattat cactatgagt gtaagttttt ggtacctatc 120  
aattcattag tcttcaagtt agaaatttat tgatttcac cccttgcaaa ctcaacattt 180  
gttataaaaa gtttaaaatt tagagagaaa gcgtttgttt ttatttatta ttaaatttgc 240  
ttcacacccc ttgcaaaact cagtaggttg caaaccaaaa tgcagtgata tagtgccatc 300  
caacaacaac aacattccgt aaagttcaaa aagctaggca caaccgttca actttcaaac 360  
tcaaaaccac aacatgaaca gaaaacgtg aaacataaca aaatgggttg cactaatagt 420  
aggaagcaac taagaaaata gtaactaaa aagtgtttta ttaagccaac ttgaagttga 480  
gcacactaag atgagaaaga aacttgagcc agcaccaccac tcaaccccca 530

<210> 9958

<211> 436

<212> DNA

<213> Glycine max

<400> 9958

gcaagctgga gccaatcca agtcactagg ttgtcttgag ccatccccga caacagttcc 60  
 tgagccataa ggggaccac ctttgacett ctccatctca tacatgccat ctccaaatgt 120  
 gtacccaacc ggaacaaaaa tcattccatg gtgaacaagc tgagtgcag aggtcaacgg 180  
 ggtctctctt tgtccacctc cttgagaact agtgctagag aagaacctg cagggttttc 240  
 tgctagtgcc tgtgtatgcc acagccctat agtgccctct aaaaatgctt tgaattgaga 300  
 agccatggtt ccaaatgttg ttggaaaacc gaacagaaaag ccatacggcat cggcaagctc 360  
 acgggggtta ataatatgaa catcatcact ctttggaggt gctcccttct tcacaaggac 420  
 ttcttcagac agtggt 436

<210> 9959  
 <211> 278  
 <212> DNA  
 <213> Glycine max

<400> 9959  
 tgcgaccatt tgaataactc aagagcttcc attgttcaat ttgatcttc tcgatatatt 60  
 atgcgccta atcggacctc cgagtgaata gctatgacca ttgaataac tcaagagctt 120  
 ccattgttca atttctagcg tctcgatata ttatgcgctt gaattcgacc tccgtgtgaa 180  
 aagttatgac cacttgaata tctcgagagc ttcccttggt gaattctagc gtctcgatat 240  
 cttatgcgcc tgaatccgac cttcggagga aatgtttg 278

<210> 9960  
 <211> 479  
 <212> DNA  
 <213> Glycine max

<400> 9960  
 agctttgatg caacatttgg agaggtttat gatacaacga gatgatgccc tccatgagag 60  
 gttggatcaa atggagaata gagatcataa tgaagaagaa aggaggagaa gagggaaatga 120  
 tgggtgttct agacaaaacc gaattgatgg tattaactc aacattctc catttaagg 180  
 aaagaatgat ccggaggcct acttgagtg ggagatgaaa atagagcatt ttctcatgc 240  
 aacaactatg aggaggacca aaaggtgaag cgtgccgcca tggagttttc cgactatgct 300  
 cttgtgtggt ggaacaagct acaaaaggag agagcaagaa atgaagagct ggttgatata 360

tggacggaga tgaaaaagat catgaggaag cgatatgtgc cggctagtta ctcaaggagc 420  
 ttgaaattcc agctccaaaa acttacccca agcaacaagg gggttgaaga gtatttcaa 479

<210> 9961  
 <211> 544  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9961

tcaggctgct caattgctcc aggttgctgc atggaagggc aaaggtttgt atgggtgtca 60  
 gcagaggagc acaaaccaca aacccttgcg acaggtacaa atttctgatt caaggccagc 120  
 tgggttacca agttaaccaa tgcattccagt ttctcttcaa gcttcttagt ttcagatgat 180  
 gcagatgggt ttgtagctac ctcatgcact cctctaataa ctatggcacc atttctggcg 240  
 ctaaaactgct gggagttgga ggccatcttc tcaattaaat ttctggcttc agcaggagtc 300  
 atgtctccaa gggctccacc actggcagca tctatcatac ttctctccat attactgagt 360  
 ccttcataaa aatattggag aagaagctgt tctgaaatct gatggtgggg gcaactggca 420  
 catagtttct taaatctctc ccagttactca tacaggctct ctccactgag ttgtctaata 480  
 cctaagatac ccttntctgat ggttgtggtc ctagaagcat ggaaaaaatt ctctaagaat 540  
 actc 544

<210> 9962  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<400> 9962

agcttgtgta gcggtaatc taactgttaa aagattttcg cacctgttac ctatagtgct 60  
 gtgcagcttg ataatagttt cctctcttcc cttggtgtaa ttctctcttt tgagggtttg 120  
 ccttaggtaa ttcagccacc ttaattctgca actctttcca catctcgcaa gacctgacaa 180  
 attaataaca acaacaacaa caaagtaaaa ccaattacaa tggattcata tatgatttag 240  
 gtataatctg tgcattgtga taattaaaca ttgaatatat ggttcctaca tattgatgta 300  
 gaagttaaac caaaccttga aaacagagaa gaagaaaaat tgaaagccac attggcgact 360  
 atattgatgg tacatgctct cacatacttt attttgttcc tgacaaaact a 411



<210> 9963  
 <211> 462  
 <212> DNA  
 <213> Glycine max

<400> 9963

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cgttctatag aaggttcgtt cctaatttct ctacaattgc attacctctc aatgagctgg 60
tgaagaagaa tgtggcattt acctggggtg aaaaacaaga gcaagccttt gctttgctca 120
aagaaaagct tactaaggca cctattctag ctcttctga cttttctaaa acttttgagc 180
tagaatgtga tgctctaga gtgggagttg gagttgtatt gttacaaggt gggcacctca 240
ttgcttattc tagtgaaaaa cttcatagtg ccacccttaa cagggggggt catagaacta 300
ccaagaagtc cccctttgag gttgtctatg ggttcaatcc ctaacaccgt tagacctcat 360
tccccctccc ctagacactt cttttataca ttaagaaggg ggattctatg gtcaaagttt 420
gtaaagaaag ttggcatgag aggggttaat aaccaattt ga 462

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<210> 9964  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<400> 9964

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agcttcaaca tcagaccact tcctttgttc tggaactact tcacatggac ttgatggggc 60
ctatgcaagt tgaagcctt ggaggaaaga ggtatgcta tgttgttgat gatgatttct 120
ccagatttac ctgggtcaac tttatcagag agaaatcaga cacctttgaa gtattcaagg 180
agttgagtct aagacttcaa agagaaaagg actgtgtcat caatagaatc aggagtgacc 240
atggcagaga gtttgaaaac agcaggttca ctgaattctg cacatctgaa ggcacactc 300
atgagttctc tgcagccatt acaccacaac agaatggcat agttgaaagg aaaaatagga 360
ctttgcaaga cgct 374

```

<210> 9965  
 <211> 529  
 <212> DNA  
 <213> Glycine max

<400> 9965

gaatcggaca tccgtgtgaa aagttatgag catttgaatt attttttagc ttccattggt 60  
 caatttcgag catctcgata tattataagc ctgaatcgga cattcgtgtg aaaagttatg 120  
 accatttgaa tttctcaaga gcttccgttg ttcaatttcg agcctctcga catattatgc 180  
 gcttgaatcg gatatccgtg tgaaaagtta tgaccatttg aatatctcga cagcttctga 240  
 tgtttaattc gagcggatca atatattata agcctgaatc gaaccttagt gtgaaaaggt 300  
 atgaccattt taatttcccg agaactttcg gttttcattt tcgagcgtct ctatatgtga 360  
 tgctccttaa tataacatcc gtgtgaaaag atatgaccat ttgaatttct caagagcctc 420  
 cgggtgtcaa tttagacctc tcgatatgtg attggccgaa tcggacatcc ccgtgaaaag 480  
 gtaatacctt ttaattttta ataaatttcc ttgttaaatt tttagcttc 529

<210> 9966  
 <211> 337  
 <212> DNA  
 <213> Glycine max

<400> 9966  
 accttcaacc tagaggagac ggaccatttt tgtgttgag aagatcaacy acaatgccta 60  
 caagattgac ttgcctagtgt agtataatgt aagtgccact ttcaatgtgt ctgatctatc 120  
 tctttttgat gcagatggag gagccttgga tttagggaca aatccttttc aagaaggagg 180  
 gagtgatgag gacataacca agggcaagga ccatgaagca cttgaaggtc ccatgaccag 240  
 aggcagactt aaacaagccc aacacgtcat agagacaagg ctggtcattt gtatagctgc 300  
 cattgatgat gattgaaggc ccaagtggag aaagatg 337

<210> 9967  
 <211> 471  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9967

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 gatcttcttc atcaatggag tcctttgctt cttgaagatt aatggcagtg gaatggagat 120  
 ggaagaatga tgattggaga tgccacttca aggagaagat tagtcaagaa gaagctcacc 180

accataggaa gccattgata agagcttgaa agtaagagaa aaggagtgga gggaaaggga 240  
 gagaaggagc acgaaatttt atgcgtcaaa agtagtctga actttgaagt ttaattctca 300  
 aatgatcaaa gttganaaaa tgcacacaca tgaccactat ttatagccta agtgtcacac 360  
 anaattcgag ggaaatttga atttctatct aaattttact tgagtttgaa attgaatttg 420  
 tgcaccaaat tttggaacca aatttcaacta ttatgattag taaattttag c 471

<210> 9968  
 <211> 555  
 <212> DNA  
 <213> Glycine max

<400> 9968

tttatccatg gcttctcatg gtggtgagct ttttcttgac tcaacttctt cttgaagtgg 60  
 cgtctccaat catctttctt ccttctccat tccgctttca ttcattctga aaaagcaaag 120  
 gactccattg atgaagaaga tctagttctt acaagctcca catggagcta catcacttag 180  
 taacgtaaca taaagcgtaa aatcattcag ttcatttctt aagattactt tccaatctca 240  
 ctgaaaatcc aatttcatga cactagtgat aaaatagaat caagcattat gagtataatg 300  
 aaattaccaaa aatagagtaa aacagattca tacatatata atacccaaag ggatccatat 360  
 gggtaaaaag attacattca atcctttaga aaaactaacc gatcattgag tagagcacia 420  
 gactaacaag agaaatggcg aataaagtga tccataatca caactctgca gtgcctcggc 480  
 tgcactatta cttttctctt tctttgcatt tttctctgga atttcttcaa ctcgattctc 540  
 ttttctttaa caatg 555

<210> 9969  
 <211> 349  
 <212> DNA  
 <213> Glycine max

<400> 9969

agcttctctc tcagctgctc aaatgcctct ctacaaagtt ggtcaagcaa aaaattttcg 60  
 tccttttgaa gaagcttgga caatgctagg agaattctggc taaaatccta gatgaatctc 120  
 ttgtaaaaac atgcatgtcc aagaaaagaa catacttctt gcacaaacat ggggtaagga 180  
 aaagaaataa taacatcgat cttcgcttca tcgacctcaa tacctatact agagacgaaa 240

tgccctaaga ctataccttc atggaccata aaatgacatt tttctaagtt aagaacaagg 300  
 ttagtctcaa tgcctcgatc aaaaactcta gagaggctac ccaaacatg 349

<210> 9970  
 <211> 344  
 <212> DNA  
 <213> Glycine max

<400> 9970

tcctgagaga gtcaaagatc aaattgagag gaaaaatatt ttctatgcta aacaagccaa 60  
 caaagggaga aagaagggtg tcttcgaacc cggagattgg gtttgggtgc acatgagaaa 120  
 agaaagggtt ccggaacaaa ggaaatcaaa gcttcaacca aggggagatg gaccatttca 180  
 agtgcttgaa agaatacatg acaatgctta caaagttgag ctgcccgggtg agtataatgt 240  
 tagttccacc ttcaatgtct ctgatttctc tctttttgat gcagatggag aatccgattt 300  
 gaggacaaat ccttctcaag agggagagaa tgatgaggac atga 344

<210> 9971  
 <211> 472  
 <212> DNA  
 <213> Glycine max

<400> 9971

ccttatgctg caaacatcta taatagacct cctcaatctc atctgcaaaa tcagccacaa 60  
 caaaacaatt atgacctctc cagcaacagg tacaagccca ggtggaggaa tcatcccaac 120  
 cttaatggtc gaatccttca caacagcagc aacaacaaca acaaccttat tttcaaaatg 180  
 ctgctggccc aagcagacct tacgttcttc caccaatcca gcaacaacaa caacaacaac 240  
 aacaacccta gaaacaacaa acagttgagg ctcttcgca accttcctt gaagaacttg 300  
 tgaggcaaat gactatgcaa aacatacagt ttcaacaaga gaccagagcc ttcattcaga 360  
 gcttaactaa tcagatgaga caattggcta cacaattaa tctacaatag tcccagaatt 420  
 ctgacagatt accttctcaa tctgtccaga atccaaaaaa gtgagggc at ta 472

<210> 9972  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<400> 9972

tccattgttc aatttcgagt gtctcgatat attatgcgtt tgaatcggac ctccgaatga 60  
aaagttatga ccatttgaat ttctcgagag ctacctttgt tcaatttcgt gcgtctcgat 120  
atattatgcg cctgaatcgg acctccgagt gaaaagttat gaccatttga atttctcgag 180  
agcttccgat gttcaatttc gagcgtcttg atatactatg cgactgaatc taacctccgt 240  
gtgaaaagtt atgaccattt gaatttctca agagcttccg ttgttcaatt ttgagcgtct 300  
ctatctgtta tgcgcctgaa tcagacctcc gagttaaaag ttatgaccat ttgattttct 360  
tgagagcttc cyttgttcaa ttttgagcgt ctcgatataa tatgcgcctg aatctgacct 420  
ccgagttaaa aggtatgacc cattg 445

<210> 9973

<211> 291

<212> DNA

<213> Glycine max

<400> 9973

agcttctata gaagggtcgt tctcaatttc tctacaattg catcacctct caatgagctg 60  
gtgaagaaga atgtggcatt tacctggggg gaaaaacaag agcaagcctt tgctttgctc 120  
aaagaaaagc ttactaaggc acctgttcta gctcttctcg acttttctaa aacttttgag 180  
ctaaaaatgtg atgcctctgg agtggggagt ggagctgtat tgttaciaag tgggcaccct 240  
attgcttatt ttagtgaaaa acttcatagt gccaccctca actacccac c 291

<210> 9974

<211> 555

<212> DNA

<213> Glycine max

<400> 9974

ttatagcaga tgccactcta ctccaaattc ttgaaggata tgtttttatg gaaacataag 60  
tacattcacc agggaaaacat tatagtggaa agaaattgta gcactgtgat tcaaaagatc 120  
cttccgccta agcataaaga cctgtgagt gtaactattc cttgttcaat tagagaagtc 180  
actgtgggaa atactcttat tgacttagga gccagtataa atttaatgcc actctccatg 240  
tgtagaaggt tgggagagct ggagatcatg cccactaaaa tgactttaca attggctgat 300

cgctccatta ccagaccata tggagtaatt gaagatgtgc tggtcagagt gaaacatttt 360  
 atcttctgag cagactttgt ggtaattgat atctgtgaag atactgacat tcttgtaata 420  
 ttgggaaggc cattcatgtt aactycaagc tgcatagttg acatgggtag aaagagaaat 480  
 ggggttttag gatcagaaaa ttgattttga tttgtttgtt gaaagcagcc cgcttcagaa 540  
 caaaatgttt gctta 555

<210> 9975  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<400> 9975

gctatcaatc tttgagcagg agaacttcca atgcataatt ggatgcatca cacattagct 60  
 caaaagggga tgtccaatca ggtgcctgaa taataagggg ggtagtcacc gcacgcttga 120  
 ggcaatcaaa agcctctttg catcggtcat caaaataaaa ctccaagtcc ttttgcagca 180  
 gattggatag tggaagggcc accttcttaa aatccttgat aaagcgcta taaacacctg 240  
 catgaccaag aaaagaacga acctctcgaa cgcaagaggg gtaaggcaat tgtgaaataa 300  
 catttttttt tgcagggtct acctctatgc ccctactgga aatgatatgc ccctaaacta 360  
 taccttgctc taccatgaag tgacattttt taaa 394

<210> 9976  
 <211> 251  
 <212> DNA  
 <213> Glycine max

<400> 9976

agcttcaaca tcagaccact tccaggtgc tgtgactact tcacatggac ttgatggggc 60  
 ctatgcaagt tgaaagcctt ggaggaaaga ggtatgccta tgttggtgtg gatgatttct 120  
 ccagatttac ctgggtctac tttatcagag aaaaatcaga cacctttgaa gtattcaagg 180  
 agttgagtct aagacttcaa agagaaaaag actgtgtcat caagagaatc atgagtgacc 240  
 atggcagaga g 251

<210> 9977  
 <211> 187  
 <212> DNA

<213> Glycine max

<400> 9977

tctgggtggga catcttgact tgcctttccaa tctgacattc accttttatt ctgcctctct 60  
ctattttcag attgggaatg cctctaacag cacctttgtc aatgattttc ttcatgcctc 120  
ttaagtgcga atgtccaaat ctttgatgcc atattctgac ttcattctct ttggaggata 180  
gacatgt 187

<210> 9978

<211> 347

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9978

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actagtttct agcagcaaca acacagagca aaactctcac agtggttaagc ttggccattg 180  
gagaaaatgt atcagagaaa ttgattccag cttattgagt ataccctttg gcaaccaatc 240  
gagctttgta tctatccaca aagccatcca ttttatattt aaccttatac acccatctac 300  
aaccatata atgcttatca ggtggttaagg gaacaagtgt ctagggg 347

<210> 9979

<211> 371

<212> DNA

<213> Glycine max

<400> 9979

agcttctcct ctagaaagtt ccaaattctt ccaccaggtc caccactctc ccataatca 60  
gcaacctcca ccatggcacc atctcaagcg cccctccat tgcaccttca gagccctctc 120  
cgacaagtac gacgacgtca tctccctatg gtccggtcc cgcctcgtcg tcgtctctc 180  
ccaaacacta ctccaagaat gtttcaccaa aaacgacgtc gtcctcacca accaccccca 240  
ctttctctct ggaaaacaca tatctctac actatggtga gtactaacgc gtaagggga 300  
ggaagattga tgggtggcaca agagaacgag gaggaaaagg tggaggcttc taagtatcag 360  
cgcgaaaaac c 371

<210> 9980  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<400> 9980

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tcgataatcc atttcgagcg tctcgatata ttacgggact cattctgaca accgagtgaa 60
aagttattgt cgtttgaatt tatcagagct tcagtatgca atattgagcg tctcgatata 120
ttacggcact caatcgaaca ttcaattaaa aaggtattgt gcgttggatt tgatcagagc 180
ttcaacattc aatttcgagg gtttcgatat attacgggga ctctatccaa cacttccgta 240
aaaaagttat ggtcgtttga atttgctcgg ggcttcaaca ttcaattttg agcgtttcga 300
tatatgacgg gattcaatcg gacatctgag taaaaagtta ttggcgtttg aatttgc tca 360
gagcttcggc attcaagtcg gagectctcg atatattacg ggactcaatc agaccacoga 420
gtaaaaagtt attgtcgttt ga 442
```

<210> 9981  
 <211> 285  
 <212> DNA  
 <213> Glycine max

<400> 9981

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ttttactcgg atgtctgatt gaggcccgta atatatcgag acgctcgaac tggaataccg 60
aagctctgag caaattcaaa cgacaataac tttttactct gatgtctgat tcagtcgccg 120
aatatattcg aacgctcgat attgaaagt gaagctgtga gcaacttcaa actacaataa 180
ctttttactc ggatgtctga ttgagtccca taatatatcg aaacgctcaa tattgaatgt 240
tgaagctttg agcaacttca aacaacaata actttttact cggat 285
```

<210> 9982  
 <211> 473  
 <212> DNA  
 <213> Glycine max

<400> 9982

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ttacatccca tattgtgata aaatcttttg tattttttgt tatgttgagg ttatgaaatg 60
atgattcaaa ctatgagtat gtgataaatt gaacatgtga cggatgatga aatacatgtg 120
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tattgagatg agatgtgtgt attgagttgt gaactatgaa ctgtgcaatc acacaattgt 180  
aagacccttt aaggacgacg agtattgtga tgggatccac tgtgggaacc cgacgagtta 240  
aaatgatttt gaaagcaatt gagtaaattgt gtgtattgca tagttcatag ataaagtgt 300  
tatgattcat gaggtgtgat aacatgttaa attgagatta taccattgtg attgggatta 360  
agtgtatgtg ataaattgag tatgtatatg attgatatat atatatatgt gcattgaaat 420  
gttgtgtgca ttgaattgtg aacctataat ttgttaatta cagcatcata agt 473

<210> 9983  
<211> 377  
<212> DNA  
<213> Glycine max

<400> 9983

tggtccctct ttgtataaga gtaagaggta gactttttat attatgactt tctctttaat 60  
tggtgctcta cccttataca aagggtgaact agctcatata ggtctctata tggaaggagt 120  
tcaaccatgt ctcttacttc catattttaa ccacttagga acctagcaat gcttggtctt 180  
tccttcccc tatgtctagc tctcaaaaag agtaattcca tttgttgtct atattcttcc 240  
acactcatac tcctttatct aagcctttgg agcttgcca taagctccct ttcatagtaa 300  
gagagaatgt gcctttttct aagggcactc ttaagattat tccaatacta tattggagga 360  
tccccatgaa tccttct 377

<210> 9984  
<211> 320  
<212> DNA  
<213> Glycine max

<400> 9984

agcttcagta agagatctga aacattgata gaattctcta taatgtcaat gcaggatcct 60  
atagattttc ccattgataa ggccctcagca accttccctc gagctgcttc atgcctccac 120  
aagaccaaga ccgtgtttag caaaggccat ctaacatgag aatctgcctt cttctgtgtg 180  
aagcctaggc ccttgagcaa taaatccaac tgtctacaat taagaaaatc acaattagta 240  
atggcaatgc catgtgagct ttccaaatgt tttcactaag taagtaagta aaaagtgca 300  
taaacccttc ttatgtcatc 320

<210> 9985  
 <211> 319  
 <212> DNA  
 <213> Glycine max

<400> 9985

agctttgaat gctctattca atggagttga caagaatatc ttcagactga tcaacacttg 60  
 cacagtggcc aaagatgcac gggagatcct gaaaatcact catgaaggaa cctccaaagt 120  
 gaagatgtcc agattgcaac tgttggccac aaaattcgaa aatctgaaga tgaaggagga 180  
 ayaatgcatt catgacttcc acatgaacat tcttgaaatt gccaatgctt gcaactgcctt 240  
 gggagagaag atgacagatg aaaagctggt gagaaagatc etcagatcct tgccctaagag 300  
 atttgacatg aaagtcact 319

<210> 9986  
 <211> 522  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9986

tcaagaaaaa gatggcctta gcaaattcct tattttcaga agggttttct atcaatagac 60  
 ctccaatctt taatggagag gggtaccact actggaaaac ccgaatgcaa attttcatcg 120  
 aggcaataga tctaaatata tgggaagcca tagaaatagg gccttatata cccaccacag 180  
 tagaaagagt ttcaatagat ggtagtcat caagtgaaag cataaccata gaaaaaccta 240  
 gagatagatg gtctgaagag gatagaaaaa gagtacaata caacttaaaa gccaaaaaca 300  
 taataacatc tgccctagga atggatgagt atttcagggt ttcaaattgt aagagtgcta 360  
 aggaaatgtg ggacactctt cgattaacac atgaaggaac tacagatggt aaaagatcta 420  
 ggataaatgc actaaatcat gagtatgaat tatntanaat gaatgcnaat ganaaatattc 480  
 agagtatgca aaagagattt acacatatag taaatcatct ag 522

<210> 9987  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<400> 9987

gtttttaagt ttttctcat tactgtccta agcaaagttc ccaaagtcct attaacaact 60  
ttcgtttgcc catcggtttg tgggtgacaa gtggttgaaa ataacaattt agtgcccaac 120  
ttgtccaca aagtcctcca aaaatgactt atgaacttag agtccctatc actaacaagt 180  
ctccttgcca aaccatggaa tctcacaatc tccttgaaaa acaaatcagc caaatgggaa 240  
gcatcatcaa cttttttaca tggaataaaa tgagccattt tagaaaacct atcaacaacc 300  
acaaaaatgg aatctctacc attgcttgtt ttggcgagcc ccaaaaacaaa atccatggat 360  
aatcaatcc aaggatactc ccgaattggc aatggagtat acaatccatg 420

<210> 9988

<211> 217

<212> DNA

<213> Glycine max

<400> 9988

agctttcaca tggatgtgcg attcgtttct taatatatcg agacgctcga aatcgaacaa 60  
cggaagctct cgataaatc caatggtcat aacatttcac tcggatgtcc gattcgggga 120  
cataatatat cgagacactc gaaattgaca accgaagctc tcatgatatt caatgctcta 180  
acattcacac ggatgccgat tcgggacata actatatt 217

<210> 9989

<211> 433

<212> DNA

<213> Glycine max

<400> 9989

taactaatca aatgggacaa ttggctacgc agttaaattt acaacagtcc cagaattttg 60  
accgattacc ttctcaatct gtccaaaatc ccaaaaatgt gagtgtcatt gcattgaggt 120  
cgggaaagca gtgtcaagga cctcaaccag tagcatcttc ctcatccgca aatgaacctg 180  
cccaacttca ctctactcca gaaaaagatg atgacaaaaa tttaacgagt aagttaccta 240  
acaatttata tgcaggtgaa tctttcactg gtaattctga ttacagaag cagcatatcc 300  
ctcttcatt cctccaaga gcaatttcca acaaaaaaat ggaagaggca gagaaagaga 360  
tcttggaac atttagaaaa gtagaggtaa acatacctct gctggatgca ataaagcaaa 420

<210> 9990  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<400> 9990

agcttctggg aaaaatcttc gagttttctt tatcaaaact cccagtgttt cattggaatt 60  
 aggtgtgaacc tacagcattg acaaattatc tcataaatat atcacttcaa ggttcgttgt 120  
 ttgtttctca cgaaacttat tcaccattgg aaacaaagag gatttacctt tctccaacta 180  
 tgaccaagaa attcattcac agctatagca ttctgtccat acatcagtgg tgaggaccag 240  
 taaccccaca gaaaccattt gtgcacattc tctggcacaat agaacaaaac tatcataata 300  
 aaggttcatt acagtaacca actttgaagt tacattacca ttttcttacc tcgggaaatc 360  
 acaaatccct ccaaaa 376

<210> 9991  
 <211> 295  
 <212> DNA  
 <213> Glycine max

<400> 9991

agcttctata gaaggttcgt tcctattttc tctacaattg catcacctct caatgagctg 60  
 gtgaagaaga atgtggaatt tacctggggg gaaaaacaag agcaagcctt tgctttgctc 120  
 aaagaaaagc ttactaaggc acctgttcta gctcttctcg acttttctaa aacttttgag 180  
 ctagaatgtg atgcctcttg agtgggagtt ggagctgtat tggtacaagg tgggcaccct 240  
 attgcttatt ttagtgaaaa acttcatagt gccaccctca actacccac ctatg 295

<210> 9992  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<400> 9992

cctcgaaggt aaactagatg ccttggttaa cctggtttcc tttttggtca tgaatcaaaa 60  
 atctgcacct gttgccagac tctatggttt atgctcctct gcgcaccacc acacagacct 120

ttgcccttct gtgcaacaat ctgaagcaat tgaacagcct gaagcttatg ctgcaaacat 180  
 ctacaataga cctcctcaac ttcagcagca aaatcagcca caacagaaca attatgacct 240  
 ctccaacaac aggtacaacc cctgggtggag gaatcatccc aaccttagat ggttgagtc 300  
 tttaacaacag catcaacaac aacagcctta ttccagaat gttgctggcc caagaagacc 360  
 atacgttctt tcacc 375

<210> 9993  
 <211> 258  
 <212> DNA  
 <213> Glycine max

<400> 9993

agcttcaaga gatcatcccc tcgatttctt tattgggtgat atctcaaaag gggtacaac 60  
 tatacattct cttaaagatt tatgcaataa tatggccttt gtatctatga ttgaacctaa 120  
 aaatataaaa gaagccatag tagatgataa ctggatcatt gccatgcaag aagaactaaa 180  
 ccaatttgaa aaaaacaatg tgtggaaatt aatagaaaaa cctggaaatt atcctggcat 240  
 agggacaaaa aggggtttt 258

<210> 9994  
 <211> 322  
 <212> DNA  
 <213> Glycine max

<400> 9994

gaattctcaa gcttcaaac tgcaacaaaa gagttgagca ggtaaaaaag attcctcttt 60  
 ttactcttag aggggacttt gagcgtctgt ttatggagga gtctgactca atctctgatt 120  
 atttttctcg agtattggcc cgcctcaatc acacttaaaa gaaatgggtga acatgttctt 180  
 gatgtgaagg tcatggaaaa aatacttcga actttaaatc ctagtattga ctctattgtt 240  
 accaacattg aagaagacca tgatttatag accatgacta ttgagcaact catgggttct 300  
 ttactagcgt actaagaaaa ac 322

<210> 9995  
 <211> 365  
 <212> DNA  
 <213> Glycine max

<400> 9995

ccttaagctc tcacaccatt tgaaaaagac tcttataacc atttcaatta cactcttggtg 60  
gagcatgtgc ctccactatt cccacccaac agtctaccat gacaccatca acatgtacta 120  
atttcaacac cttcagctgc tttagtagat catccagatc aactagctca catttaatat 180  
tgatcacccc taactataaa acaatatata cagaatgttc ctatataatg gtagattcat 240  
atttaaagat aatttctctaa agaaaattag agtgtttctt ttcttatact aagaatatct 300  
ctcaaaactct aatttcattc gaggactatc attcactgat attgtgatgc tcattagtc 360  
aatta 365

<210> 9996

<211> 297

<212> DNA

<213> Glycine max

<400> 9996

agcttgaaat tgaacaacgg aagctcttta gaaactcaaa tggtcataaa ttgtcacacg 60  
gaagtccgat tcaggcgcat aatacatcga gacgctcgaa attgaacaac gaatgctctc 120  
gagaaattcaaat gatgatcata acttttcaaa cggaagtctg attcaggtgc ataatatatc 180  
gagacactct aaattaacaa cgaaagctat caagaaactc aaatggtcac aaattgtcac 240  
acggaagtcc tattcatgag cataataaat cgagacgctc gaaattgaac aacgaat 297

<210> 9997

<211> 501

<212> DNA

<213> Glycine max

<400> 9997

tgtaataaat taaaaaacac caaacctaca aatacatctt cttttaaaaa ttaagaaaaa 60  
taaacaacat ggtaatgata gaaatgtgca taaatcaatg tcgattaatg aatatatcaa 120  
aaattaaaaat aaatttaata aagaacatct aatacttttg tttctctata aaattgaaaa 180  
tataatacaa ttagaatata ttaataaaaa ttaatgacac gtataataat taattgataa 240  
tatctctctt taaaaaaaat ctgaaagtag aataattcat caatttctac atcaattatt 300  
tattatataa acaaatataa tgatcttgta tataaataga acaaaaaaaaa aatacaatga 360

aaaaaaatta cttgttacga ataaaaataa aattaaagaa acaagtctca cgaaaaaagt 420  
 gtatatgaat ggaatgtgac aacaaaatat gcaacaaatt gtattaaggc ccagggtttt 480  
 ggaatgaaac aaaaaatgcc c 501

<210> 9998  
 <211> 285  
 <212> DNA  
 <213> Glycine max

<400> 9998  
 tatgcagaga atatccaatg tatatacctt catctgactt aacatcaaatt ttttctaagt 60  
 tatctttttcc attattcaat acaaaacatt tacaaccaa gatatgaaga tgtgagatgt 120  
 ttggttttct gccattgaac aattcatatg gagttttctt taaaatgggt cttattaaag 180  
 ccctatttaa atgttagcat gcagtgttaa cggcttcagc ccaaaagtat tttggaagag 240  
 gagtatcatg tttatgttca atgacacact tttgagaata aatga 285

<210> 9999  
 <211> 505  
 <212> DNA  
 <213> Glycine max

<400> 9999  
 agcttatctt tcagagtctg aaaagcttct tagcattcat catcaagctt gaagactgcc 60  
 tctttattca gcaagttgct caatgggttg acgattttag agaagtcctt gatgaacctc 120  
 tgatagaagc ctgcgtatct gaggaacctc ccgataccct tggcatttat tggtgagggt 180  
 aaattctcaa tgacatcaat tttggctttg tccaccttaa tgcctcaggc tgaaatcttg 240  
 tggcccaata ttattccttc ttggaccatg aaatgacact tctccttatt cagcaccaga 300  
 tttgcttcaa ctcatcttcg caatacgagc tctagattag tcaagaagta gtcaaaggaa 360  
 agcccaaaaa ttgagaaatt gtccatgaag acctttatgc acttttctac catgttctga 420  
 aaaaatagct agcagctacc tcttaaaagg ttgttgtgca ttacataacc ccgatgacat 480  
 ctttttgtat gcaaagaccc caaag 505

<210> 10000  
 <211> 351  
 <212> DNA

<213> Glycine max

<400> 10000

ctggggttcga tggccccaat gacatctatc ccctacattt tataaggcca aggggcggaac 60  
ataaacattca gaggatgtgg cggaacattg acattgtccg cgtatgcttg acatttatga 120  
catttcetta catggggcgca gcaatcgctt tccatagtga gccagtaata accggcccta 180  
aggatcttcc tggccatagc atgcccattg gcatgtgtcc cacatgaacc cccgtggatt 240  
tctcaatca tgcagattgc ctctttggca tctacgcac gtatgagggt catgttgggg 300  
tttcgtttat acaggatggt accacttaca aagaaaccaa tatccaatct c 351

<210> 10001

<211> 361

<212> DNA

<213> Glycine max

<400> 10001

agcttgtgct attccaagtt cattaattat acctttaagc cagattgctt cgttcactcc 60  
ttcaactaag gccatgtatt ctgcttcagt tgttgaaagg gcaacaactg attgttgatt 120  
tgcttttcaa ctgattgctg taccaaacaa agtaaacaca tatccagtta aggactttct 180  
tgtatctacg tttcctggaa aatctgcac tacatagcct gtgattgctg ctteatgtgt 240  
tgtcttcttg taccttaatc cagctttcaa agatccattt agatacctta gtgttcactt 300  
cacaactttc cagtgtatgc tgccaggatc tcccatgaat atgcttataa tacttacagc 360  
a 361

<210> 10002

<211> 393

<212> DNA

<213> Glycine max

<400> 10002

ggcctaggat cttcttcac aatgggattt cttttgtctc ttggaagatg aatggcagcg 60  
gaatggagaa tgaatagaga gaggagacgc cacttctagg agaagatgag ttataaaaa 120  
gctcaccacc ataggagggtc atggataaga gcctggagga agaagatgaa tgaagggaga 180  
gggagagaag agcacgaaat tttgtgctct aaaagagctc taaaatctga agtttaatat 240



tcaaatgac aaagttgaaa aaaatgaaca cacatgacct ttatttatag cctaagtgtc 300  
ccacaaaatt ggaggggaaat ttgaatttca attcaaattt cactagaatt tgaaattgaa 360  
tgtgtggatc caaaatttca ctaagtatga tta 393

<210> 10003  
<211> 457  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10003

gcgacctta acgcactgcg gctgcagctt ntgaaactgg aatcatttat cctatctcca 60  
tcagccaatg ggtgagtcct gtccaggtag tcccgaagaa gaccgacctc acagtgatca 120  
aaaatgagaa ggaggagcta attcctactc ggggtgtagaa cagttggaga gtctgcattg 180  
actataggag gctgaaccag gttacaaaaa aggaccattt tcccctgaca ttcattgacc 240  
agatgcttga acgcttgcca ggtaaatccc actactgttt ccttgatggg ttttctgggt 300  
atatgcaaat tactattgct cctgaggatc aggaaaagac cacattcctc tgccccctcg 360  
gcacttttgc ttataggagg atgcctttcg gcctgtgcaa tgccccctgg accttccagc 420  
gggtcatgat tagtattttt aatgatattt tagaaaa 457

<210> 10004  
<211> 415  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10004

agcttgccgc caccgagnnt ttttactatt ctcttgtn gnggaacaag ctacaaaagg 60  
agagaacaag aaatgaagag ccaatgggtg gtacatggat ggagatgaaa aagatcatga 120  
ggaagcggtg tgtgccggt agttactcaa gggacttgaa attcaagctc caaaaactaa 180  
cccaaggcaa caaggggggt gaggagtatt tcaaggaaat ggatgtgctc atgattcaag 240  
caaagattga agaagatgag gtgatcagga tataaccaag ggcaaggacc atgaagcact 300  
tgaagggccc atgaccagag gcagacttaa acaagcccaa cacttcatag agacaaggct 360  
ggtcatttgt atagctgcca ttgatgatga ttgaaggcct aagtggagaa agatg 415

<210> 10005  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10005

gcttccaaga ttattntgat gatgccattt attatttaat atccattcaa acaagattaa 60  
 agaaatcaag aagattcaag agaagactta agatatgtaa gaacctcaag aaaagcatca 120  
 agataagtat aaaaagaatt tttcaaagaa aagattgaat aacacaattt gtccaaaaga 180  
 atttttcaaa gaaaaatctt ttaccagagt ttttactctc ttgtaatcga ttaccataag 240  
 gcagtaatcg attaccagaa gcccaaaaca gttttataac tgttttacia agtagtaatc 300  
 gattaccaat gtttttgaac gttgaatttc aaatctcaag agtctcaact tgtgacaaaa 360  
 tattttcaaa acagtgtaat cgattacaca atatttgtaa tgcattacca gtggtttttg 420  
 aatgttggtat t 431

<210> 10006  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10006

agcttgaggc acaatggtag ccacaaagct gattattctg catagctgcn gcatgggaag 60  
 aagaggagaa gaccaagtgt tgtcttaggt aactcaacct taatagtctc agtgcatgta 120  
 ataactattt tcaataactt ctgacacatt ttcaataacc ttaattatca atttgattct 180  
 caaattttta aaaggttcaa tttaatgctc aagtttttaa agatgaaatc aatttggtct 240  
 tcaaattatt ttaaatattt taatttggtc ttttaagttct taaaaatttg aaaatcatat 300  
 tgattcattt ttaaaaattt gaaggttcaa ttgattcatt ttttaagaatt tgaggactaa 360  
 attaaacctt ttaataattt gnggatcaaa ttaatttatt ttttaagaact tatgatcaaa 420  
 ttgaacc 427

<210> 10007  
 <211> 406  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10007

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tgttttcgat tttcaacatc gatgtttaac cgatgttgaa accaccgacg ttaacattat 120  
caatgctaac attggttttc aaaaaaccga tggttaataata cactacacga catcggtttt 180  
taagaaaaaa ccgatgctgt atagtacaaa atgtatgaaa aacaaatact acaataaaca 240  
acatcggttt tagtcaaaat cgatgttgaa ttgcgtatctc tgaaacgctt actacatcgg 300  
ttatgaacaa accgatgtag agagtacctt tacaacatcg attattggaa gaattgatgt 360  
taaatgtgct tatgatatca gnttttagtac aaactgatgt agaaaa 406

<210> 10008

<211> 333

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10008

agttctcacga tagtcacgtg cttttctttt angttagccg aggtatatacg agacatactt 60  
gccaaacaaag tcagggttaac gataactcac ctatgctctt tctttcattc tatatgtage 120  
aaagtcattg atccagtcac atttgatgag ttggaaaatg aggcgcgaat tatactgtgc 180  
cagttggaga tgtattttcc ctttgctttc ttgacatca tgattcactt gattgttcat 240  
ctggtcagag aagcagaaga agccattgaa ttttgttcag aatacttaga gaaggctaaa 300  
cctgttgggc tttctgagtc tcggcatgat gac 333

<210> 10009

<211> 368

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10009

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gctgatatga agagtgcctat taagactgct gttgctgagt tgcttccggg tcttgcttct 120  
cgagggttcag agtcagaatt cttttctgga gacagagctg tggatgcaga tggtgagaat 180

ttcgctagca taaatgatta tgtttgtctg tacgagaaaa tataacttta atatctttct 240  
 tccatcggtg ttttatgtga tctgttctac tttcaacttt ctaatgctaa atagtaactc 300  
 aggtggaggt gcacacttg ctancaagtt gcggagccta tcatctgact gttttgcgca 360  
 tcttctga 368

<210> 10010  
 <211> 411  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10010

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 tccattcttt aaagagaaac aagatggcac cacatagagc tgaagattta gtatttgttc 180  
 atagcaacct acgaattctc tcaaggaata ctccacaata tcatcaagag gaaactaaaa 240  
 tgtgagatgt aactggagat gattttgggt cacttgatga ttgtggtatt cttgaaattg 300  
 ctagtgtgtc tttagatgaa ccagagttag aggggtgtct tttcattgat gattgctagt 360  
 ttgtgaaatt cgtgaagact tgaagttgtt aattcatcat cttgctntat a 411

<210> 10011  
 <211> 423  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10011

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 attggaaaaa gtccaattta tccatagcat gtagagtaac ttttaacaaaa gttgttatcc 180  
 aagccatgca tatctatgtg atacaaacta ctttattact gtcttcggtg tgtgaagaaa 240  
 ttgaaaaaaa tgttgtaatt ttgtttgggg ccacacaaat acctctagca aaattcattg 300  
 gcgaaaatga gattctctat gcattccaaa aagaatggc gaccttggtc tgaggaaaaac 360  
 tagtgttatc aaccaagttt ttttaatgga ggtgggggtg aaattatgta tgcgacctaa 420

tga

423

<210> 10012  
<211> 421  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10012

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ttcttagcct cagcatgagt catatcaaca agggctccac cattggcagc atcaatcata 180  
ctcctctcca ttttgctaag tcctcatag aaatattgaa gaaggagttg ctcaaaaatc 240  
tagtggtgag ggaagcttgc acacaatttc ttgaatcttt cccaatactc atacaagctc 300  
tctccactca gttgectgat gcctaaaatg tcttttctga tggtagtggc cctagatgca 360  
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g

421

<210> 10013  
<211> 313  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10013

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atagaaaagg gaagctctaa gaataatcaa acgacaataa cttntaactc ggatgttggg 180  
tagagccccg taaaatatcg agacgctcga aattgaaaac agaagctctg agcaaattca 240  
aacgacaata acttttgact cggatgtccg attgagtcctc ataatatatc gagacgctcg 300  
aaaatgaaaa tag 313

<210> 10014  
<211> 441  
<212> DNA  
<213> Glycine max

<223>        unsure at all n locations

<400>        10014

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ttcttgatgc tctctgatga tgttttccag gacctgtgtc acctgcttgt gcaacttctt  180
caatctgggc atctttccag ttaggaaata taagaatgga attgaaggaa agacatcagc  240
aaggctgaat cctccccggc attctacgat tnttcggatc aaagacacaa caaactcctc  300
ttgtccttg tatatgccac cgaatgtctc cctggaaata gaggcacata tcaatgagaa  360
aattctactg gtgagattga taggcgaacc agcagattcg cgaatggagt tgatanactn  420
tgctgctcg tcttctctaa t                                     441
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<210>        10015

<211>        413

<212>        DNA

<213>        Glycine max

<400>        10015

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tgctctcaac caaccatcat tgatggctat gaaatacctg ccaaaaactaa agtcatggta  180
aatgcatacg caatttgtaa ggattcccaa tattggattg atgctgatag gtttgtccct  240
gaaagggtcg agggtagttc tatcgatttc aaagggaata actttaacta tctccctttt  300
gggggaggac gaagaatatg ccagggcatt acattgggtt tagctagcat tatgcttcca  360
ctagctctac tactgtatca cttcaactgg gaactcccaa acaagatgaa acc          413
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<210>        10016

<211>        303

<212>        DNA

<213>        Glycine max

<400>        10016

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tgtaacatct caatgatgtg ccaagcaata gcttcttcct cactatctgg atccgatgca 180  
 cgaataaggt gttctgctct gtcaataaac ataaaatgaa ttaagcagga tacatgctgt 240  
 cgaccaccta tgatgcacgt atactttcaa aatggcagca tatacatact ggacctgtgc 300  
 tac 303

<210> 10017  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10017

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 tcctttttgga catgtcgtcc ctttgtatct atcaaaatct ggtactttga acttgggagg 180  
 gatgacgatg tcaggtaacca aacacagatc cgccaaatct gagaacgggt agttgccgatg 240  
 gccttctagc gccctcagcc tctcttcaag taaatcaatc ttcccttat cttttgcaaa 300  
 gggaacggat tctttaacgg gtgcgggtgg agacgggaca tggcggacta tgtttggttg 360  
 gggcaattca tgggggggcg gatccttgag gggcagtaga gggcctagac gggcatcttc 420  
 ttca 424

<210> 10018  
 <211> 291  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10018

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 ccgaacaaaa tgacaatcaa tctcaatatg tttagtctc tcatggaata ctagattaaa 120  
 agctatatgt agggttgcct gattatcaca acatagcttc gcttggtgag tatttccaaa 180  
 cttcaattct taaagaaagt gtttaatcca natgagctca caaggggcta caaccatagc 240  
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<210> 10019

<211> 402  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10019

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 caaacactag tccagctaat ttgtatggta tgtctgtgtc tacagtactt tgatccgttt 180  
 atggtataaa tcatcaacaa aagaatggtt gaaatcttat taaagctgat aataatcaaa 240  
 agatagcagt aatctatcaa ataaagaaat aacagtgaaa ctgaccctac tcgtaatttg 300  
 gcttgaaggt gtggtgtcaa aaaatgaaac atgtgccctt aanacaatcc ttcctagtat 360  
 gaagatggtg ccacccaaaag atagaagagc aaatgttccc at 402

<210> 10020  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10020

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 aatattaaga aggatgagag atcttttatt tgggaagatc aagtgggaag aaagaaaatg 180  
 catgctatag gttggaactt gatggctcgg cctaaagctt atggaggggt ggctatgtga 240  
 aatctcaagc ataagaattc tgctagtttg atgaagttag ggtggtttct cagaaatgat 300  
 gtgaacaact tatggtgtca ggttctctaaa gggaaatatg cgagacaaga tttctctgca 360  
 acatgttttg tagccaagcc acatgat 387

<210> 10021  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<400> 10021

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 actgagcttg gttcatctga gtagccactg ccctatctga ttgtgcatac ttggaatgga 240  
 ggcctcttgct tcttgcctgaa attgcatac ctggatgata atttgccctca ctaactcttc 300  
 taaggaagggt tgaggaggag cctcaactgc ttgtgtctt tgttgtgact actgctgttg 360  
 ttgctgctgt attggaggag gaacatatgg cttgcttgga ccaacaacat tctg 414

<210> 10022  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<400> 10022  
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 gatggacaag tctctatata caacaacagc atgtccctcc ttttcaaaat gttgttggtc 180  
 caaacaagcc atatgttctt cctccaatac agcagcagca acagcaacag tcacaacaaa 240  
 gacaacaagc aactgaggct cctcctcaac cttccttaga agagttagtg aggcaaatga 300  
 ccatccagaa tatgcaattt cagcaagaga caagagcctc cattaagagt ctgacaaatc 360  
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 cttcacaaac t 431

<210> 10023  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<400> 10023  
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 cactaagctt ggttgggcaa atattgcaga aaagttcaat aagacaacaa atttgagata 180  
 tgaatataag caattcagaa ataggttgga ttctttgaaa aaggaatggc aattatgggc 240  
 caagcttatt gggaaggaca caggtcttgg ctgggatggg gagaagaaaa ccattgcagc 300

tagtgatgaa tgggtgggaag ccaaaattca ggtatgtgtt attcaactga aaccattgca 360  
gccttct 367

<210> 10024  
<211> 424  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10024

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ccaacctcca tatttgagat taatgattct agccataaa tgcgtctgac cagaagctaa 120  
ggcccatatc catttgccca acaaagctac attgaattta gatatttatt taatccccag 180  
acccccctca gccttaggaa ggcaataaac cttecathtt acccacggaa tttctttgta 240  
atccttttct cccccctata aaaaattcct ttgcaatgct accaatctat gagctacctt 300  
ttgaggaatc ttgaagaaag ataagaggta aattggtaaa gcattgagga cagaatttat 360  
cagagagacc tttcctgcca tggatatatn tttttgtgcc cacttggata atttagattc 420  
acat 424

<210> 10025  
<211> 410  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10025

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tcacctctca tattgtcttt attcaggaag ggaacacctt tcttagccat aacaagtgtt 120  
gtgttcgggt gtgtccagc aggaattttc aaatcgaccg ttccatctac agtaggaacc 180  
ttaattgtag tccccaggat tgcataata tacgaaacct tgcagggtga taaaatgttg 240  
gtgtcatcac gtttaaggat gggatctggg ataacctcaa taactacaaa gaggtcacca 300  
ggggaaccac ctttctctcc agcattcccc tcattccgga cccttagacg actaccagag 360  
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<210> 10026

<211> 440  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10026

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 tcacaaatgg cgatgagctg cgagatgaat ctggcaatat aattcaagcg tcccacgaaa 120  
 cctcggactt gcctctctgt acggagttct ggcattctca ggatagcctt cacccttntg 180  
 ggggtctacct ctatcccttt ctggcttaca atgaaaccaa gtaatttccc tgatttgacc 240  
 ccaaaggtag acttagcggg gttcaacctt aattgatatt tcttaagcct ttccaacaac 300  
 ttccgcaggt tgacaagggt ttcttctctg gatttagatn tagcaattat gtctgccagc 360  
 tagacctcga tctcttgatg catcatatca tggaaaaaag ctaccatggc ccgttgataa 420  
 gttgccccga cattcttgag 440

<210> 10027  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10027

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 cnttcacaac atcatgcaac caagattggc caaacatttg caacttccca ttccaccgat 120  
 taaaactttc cctgttatga ttgggtatgg aaatcattta atttgtaatg gtcaatggac 180  
 taacgtgcct ctttttagtcc aaaaccattt gtttacttta ccattttatt tgttacctat 240  
 ccaggagct gatttggtat tgggtatgga acggttgaga actttgggcc ccattatttc 300  
 tgactntgta gtcccttgca cgactcttac ttacaatgat tgctccatta ctttaaaagg 360  
 ggaactatta aatcctcaat ttaccattt tcagtaactc tgccacctca tgcatact 418

<210> 10028  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<400> 10028

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 ccttaccata ttcattatgg ttctattttt tctttctgca gctccattat gttgaggtgt 180  
 gtagggagga gtcacttcat gaattatgcc ttcttgatca caaaattctt gaaattctac 240  
 agaaacatat tcaccaccac catctgttct caatatcttg atcaatgagc cactttgctt 300  
 ttctgccata tttttgaact tctcaaagac ttcaaagaca tcactcttcc ttcttattag 360  
 gtaaactcat actttcctag tcaattcatc aataaaggat atgaagtatc tgtttccacc 420  
 c 421

<210> 10029  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<400> 10029  
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 tttggacct tggaatgctg ttatgcgtat tctgaggtat gtttaagaaag ctcttgagca 180  
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 ggctggatgt cccatggata ggagatctac atcacgttat tgtgttttca ttggaggaaa 300  
 tctaattctct tggaaaagca agaaacaaac tgttgcgct cggctctagtg cagaagctga 360  
 gtatcgatct atggctatgg ttacatgtga gctcatgtgg atc 403

<210> 10030  
 <211> 288  
 <212> DNA  
 <213> Glycine max

<400> 10030  
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 ctcataagat atcgagacgc tcgacattga acaacggaag ctctcgagaa atacaaatgc 180  
 tcataactct tcacacggag gtctgaggca cgcgcataat atatctagac cctcaacatt 240

aaacagcggg agctctcgag aaattccaat gggcataact ttctactg

288

<210> 10031  
<211> 452  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10031

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taacatcttg tgcatgcagt tcttctatca gggacgcagt gtggaactga atgggtgatca 180  
ggatgacact ccgaacttca tcacactgtc acaattttgg cgaatttcgc agaccaagc 240  
tttaggactg tactaccaca tcacacttct atcgaaggac tcgccaacc cacaggacct 300  
tcaccagat attcagtcct tctgactaa gttcgcacac ttngttcacc aaccagcac 360  
cttgtcatcg aagtaggaca ccgatcatca cattcatctc ctccctcagt tcaactccgg 420  
caacgtgaga ccgtatcact acccacactt ct 452

<210> 10032  
<211> 428  
<212> DNA  
<213> Glycine max

<400> 10032

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aattatgacc ttccaagcaa aagatacaat ctaggttgga ggaatcatcc aaatctgaga 120  
tggaacaagtc ctccacaaca acaacagcct gtccctcctt tccagaatgt tgttggttca 180  
agcaagccat atgttctctc tccaatgcag caacagcaat aacagtcaca acaagataa 240  
caagcaactg aggttctctc tcaaccttcc ttagaagagt tagtgaggca aatgaccatc 300  
cagaatatgc aatttcagca gaagacaata gcctccatc agagtttgaa aaatcagatg 360  
gggcagatgg ctactcaatt gaaccaagct cagtcccaaa attttgacaa attgccttca 420  
caaactgg 428

<210> 10033  
<211> 327

<212> DNA  
<213> Glycine max

<400> 10033

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aaaagtcagc tgaagtcagc accgagtggg gtattgtccc tggacgtgga gggcattcca 120  
ctctggattt tatttctgtc taattgaatt tgtattctct ttaacaaccg aggaattttt 180  
ggcctgccca attaatgtgt ttactttcta tgttgacttt gtgtaagctt cccctcagcc 240  
agggtggcact ggtagttttg aacatcgga tctgcaaggg ctgaatagat ctattaacgg 300  
ttctataaca acaagcaact tcttgaa 327

<210> 10034  
<211> 390  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10034

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gcttgccatg aaacacatta agccattgct cgtgtaatga gctggaaatg tcttgcttat 180  
gtctttctga aaaacgtaat gatataataa ttctcttaaa gaggaaaatt aaactagtta 240  
agatagattg atgcttaatt acttgaatta tgaaccatgc tgcccagaca aggggtgctaa 300  
gaattacgac caaagggcct aggaacatgt ttcctttgcc agaagagcta gttccttcca 360  
atttctcagc atatcttcag tgaatacttg 390

<210> 10035  
<211> 407  
<212> DNA  
<213> Glycine max

<400> 10035

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caacattgac tgtcactggg tggcgaatat acatcgactt cgactaccgc aagctaaatg 180

aagccataag gaatgatcat tttcctttac ccttcacgga tcagatgttg gagaggcttg 240  
taggtcaggc atatattgct ttttgatgg atattcaggt tataaccaga ttgctgtgga 300  
ccccaaagac caagagaaga cggccttcac atgcctttt ggtttgcta tagacagatg 360  
tcatttgggt tatgtaatga atcagccaca ttccaaaggt gcattgct 407

<210> 10036  
<211> 428  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10036

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agatggctga atccttcaca acagcaacaa caacaacaat agccttattt tcagaatggt 180  
gctggcccaa gcagaccata cgttctcca ctaatccagc agcaacaata gcaacagccc 240  
cagaacacgc aaacagttga ggctccactg caaccttccc ctgaagaact tgtgaggcaa 300  
atgactatac aaaacatgta gtttctacaa gagaccagag cctccattca aagcttaact 360  
aatcagatgg gacaattggc tacacagtta aatcaacaac aatcctagaa ntttgacaga 420  
ataccttc 428

<210> 10037  
<211> 408  
<212> DNA  
<213> Glycine max

<400> 10037

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tgtgagcaag gtagtatagc caatcttttg ccactccctc tagagaatga ggaaaaacct 180  
ttagaaaaat atgatctctt tggacatcag ggggcttcat ggtggaacaa acaatatgga 240  
actccttaag atgcttatga ggatcttcac ctgcaagacc atgaaacttg ggcatcaaat 300  
gtattagtcc aatgttgaga acatatggaa caccctcatc aggatattga ttacacaagc 360  
tttcataagt gaaatcaggt gcagccatct ctctaagagt cctctcac 408

<210> 10038  
 <211> 561  
 <212> DNA  
 <213> Glycine max

<400> 10038

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gactatggca tcatttctgg cgctaaactg ctgggagttg gaggccatct tctcaattaa 120
atttctggct tcagcaggag tcattgtctcc aagggtcca ccaactggcag catctatcat 180
acttctctcc atattactga gtcttctata aaaatattgg agaagaagct gttctgaaat 240
ctgatggtag gggcaactgg cacatagttt cttaaactct tcccagtact catacaggct 300
ctctccactg agttgtctaa tacctgagat atccttcttg atggctgtgg tcttggaaac 360
agggaaaaat ttttctaaga atactctctt aaggtcaccc cagctcgtga tggaccttgg 420
agcaaggtaa tacagccagt cctttgccac tccctctaat gaatgaggaa aagccttcag 480
aaatatgtga tctcttggga catctggggg tttcatggtg gaacagacca tgtgaaattc 540
tttccaatgt ttgtgcggt c 561
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<210> 10039  
 <211> 585  
 <212> DNA  
 <213> Glycine max

<400> 10039

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ccgctttagt gccttggatc ttcttcatca atggagtctt tctcttctta aagtttgata 60
gcagcgtaat ggagaaggag aagggtgatt ggagatgcc cttcaaggag aagatgagtc 120
tagaagaagc tcaccaccat aggaagccat ggataagagc ttgaaggtaa gagaagatga 180
atggagggag agggagaaa ggagcatgaa atttagtgcc tctaagaag tttgaacttt 240
gaagtttaat tctcaaata tcaaagttga aaaaatgcac acacatagcc tctatttata 300
gcctaagtgt cacacaaaa tggagggaaa tttgaatttc tattcaaatt ttactagaat 360
ttgaaattga aattgtggag ccaaaatttc actaattatg attagtgaat tttactatg 420
gttcagccca ctaatccaag atcaagttaa agattctcca ctaaagtgtc ttagggtggca 480
tgaggcatgt aaagcatgaa ggacatgcac aaagtgtgac tatatgatgt gacaataggg 540
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tgtagccagc aaatgctcac ctccctctta aaatttaatt ggatt

585

<210> 10040  
<211> 521  
<212> DNA  
<213> Glycine max

<400> 10040

tcaaatggac atcacttcgt cttagtcgcc atttgttttt cttcatcaaa tgggtcaaag 60  
tagcttcata cgccaatgtg actaggagtg tggtgattag attcataaaa aaggagataa 120  
tttgctgata tgggttgccc aggaaaatta tcaccgatta tgccaccaat ttgaacaaca 180  
agatgatgaa ggaaatgtgt gaggatttca aaatccaaca ccataattcc acaccttaca 240  
ggcctaagat gtatcgtgca gttgaggttg ctaataaaaa tatcaagaag atagtcacaga 300  
agatgattgt gtcatactag gattggcatg agatgttccc ctttgcgttg aatggttatc 360  
gaacttcgat gcgcacatct actgggcaac ccccttttct ttggtgtacg ggatggaggc 420  
tatgtcccg tttgaggtgg aggttccttc ttgagaatc ctatccgagt cggggttgga 480  
aagattcgaa tgggcccaag ctgcgttttt gatcagttga a 521

<210> 10041  
<211> 487  
<212> DNA  
<213> Glycine max

<400> 10041

ggaagccgaa cagcggacgc tctacgaaaa ctgcattttt tataacttat cacacggagg 60  
tgcaattgag gcgcataata tgtccagacg ctcgaaatta aacaacgaat actctcgaga 120  
aattcacatg gccgtaactt atcgcacgga agtccgattt aggcgcataa tacattgaga 180  
cgctgaaaaa tgaaccacga atgctctcaa gaaattcaaa tgggcatagc taatggaacg 240  
ggaggccgat ttatgcgcat aatacattga gaagcttgaa attgaacatc ggaagctatc 300  
aagaaactaa aatggttgga aactgttaca cagaagtgcg actcaagcgc ataatacatg 360  
gagacgctcg aaattgaaca acgaattctc tcgagaaatt cgaatggtca taaaatttca 420  
aacggaagtc cgatttatga gcataatata gcgagaacgt tgcaattgaa ccacgaatgc 480  
tctcgag 487

<210> 10042  
 <211> 469  
 <212> DNA  
 <213> Glycine max

<400> 10042

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ttaaatactc agcttataat tgcagcagcc aatccttgaa gtttcctgtt tcttcctgtg   60
aaataaaaaga aaaaaagaaa ttaaacctaa ttttggtcag gtaaggaaaa gtaggacaaa  120
cttacctaata gcaaaatggc aaggtaaaag ttgccaagt ctcttcaatg tggtcatttc  180
atcatctgtt agtttaggat tcacaccata tggaagaaag cgaaagggct tcttataacc  240
atgaataaca gcaggcagaa gatcagcacc aacaggcaaa ggatcacctc cccaccaatc  300
agtaaatcga ggcccaagcc ctgttagcaa acagtctgta tcttctgcaa actctgcttc  360
atctggcagt tgaaatcgta ctttattgtg agtaccacaa cctattatta aagctggttt  420
tgctgtttca ccatttgaat ttccacacc acatgccct gaatttttt  469

```

<210> 10043  
 <211> 520  
 <212> DNA  
 <213> Glycine max

<400> 10043

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tgttataaat gttgtcaaca taagggccct tgagttattt agtgaacttg tttgcaagtt   60
ggtcactaaa gccgacaaaag ttggtgatga tttctcctga aagcaccttc tctctcacia  120
agtgacagtc aatctctatg tgtttagtcc gttaatggaa gagcgaattt gaagcaatgt  180
gaatagcata ttgattgtca catattagtt tagtatcttg agtgctcca aattttagct  240
gttggaagaag tttcctaagc catgtaatct cacatccagc tgctgccata gcacggtaat  300
cagcttcagc actagatcta acaactgttt ttgcttctt gctcctacaa gggatcaagt  360
tctctcaat gagaacacaa tctcctaaag tggacttctt atttgatggg gatcctgccc  420
aatcagcact agaatagcaa acgatgacag catcacaatt tgtatgacaa catttcaatg  480
actatcacat gcaaatgtga tatctggtct agtgacaatg  520

```

<210> 10044  
 <211> 511

<212> DNA  
<213> Glycine max

<400> 10044

tatcaggtat aaactatttta aaatcgtaag gaatttcctt ttataagatt gaactgaaaa 60  
 taaataaatt ttggtggata aaaatcgtaa caaattgtga aatcgtaaac tcaatgaaca 120  
 aagagggact aaaagtaact ttctgaaaat ttgagggact aataaaaata attttttttg 180  
 agaactaaaa aatacttacc gaaatttgaa agattaataa tatatttaag ccttaaatca 240  
 atcttataaa atcagcttgt aagatgaaag atgtcccaca cttatatata ctaatttgac 300  
 tatatctcta gacaatgtga tctcgaacac aacctctcat gtcaaagata ggatatctcg 360  
 tgcgtgaagt ttgcaggatt ggaagtttat gggtagtgtg atagatgtcc ggtagagggt 420  
 ggcacaatag gcctaacaat agattgctag gataaaacttt gatatcatct taaaatgtgg 480  
 gtttgaacct aactcaacct taaaaactag c 511

<210> 10045  
<211> 579  
<212> DNA  
<213> Glycine max

<400> 10045

tttacctctc gttttaactc tcagcatctc ctgactttca atgtcaaaga taaggcaatg 60  
 ttgattttca aaaaggatag tttaaatcct ttttctatca actaacctac gctaagaaaa 120  
 ttttggtcaa tatcgagtac ataaagaaca tatgagattg tctttatacc tgaacttggt 180  
 gagattacga tggctccttt tccttttgcc gaaatataac caccgttccc aattctgatt 240  
 tttgagactt tagtaggctt caaatccttg aagagtgttt tgatcatatg catgtgggtt 300  
 gtacaaccac tattaatcaa ccagcattct gaactactcc ttgctgaaaa agatgttgcc 360  
 acaaacattt gatcttcttc atcttgctct atgacctgag cattgacttc atgctgtaga 420  
 aacttgcttt tgcacataac aacttcattg acaaaactgat tgcatttgct gcactttgca 480  
 tctggaactc tcccgcatth gaatggcggg ttaccatttt tgccacaatg gtgacaaagt 540  
 gggtaatttt ttcttatacc cttaccttta ctttgggca 579

<210> 10046  
<211> 601

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10046

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tgagaatgtg cctatgaatt gggttttagc tatgtttata aaccagccct gagagaatat 60
ggcgagtga attccgaatg acagattcta ttagggcacc acaatgatca eggacatatt 120
tattaattga accgagatga acatattcca gataaatata aaaacggtgc tcaacctgca 180
agcacatatg ttaagggttt aatgctggta cagaataatg attattaatc ttgagtagct 240
aattatgaag taggagattg cttactatct cactgccaaa atactgtacg atgtttgaat 300
gttttagatt nctaagaact ttaatttctt ggagaaaaag aataaactaa taagaaggat 360
aaagaggata taaaaataa catatcttca aaactattac ggaacgataa atatatatag 420
gcaagcagcc caagccatta ttaataaaaa caacctcatc aagtattcaa ctacagtgga 480
cactaaaaac aaatgannna cctcacttgc aaatatatga tatcggccaa ggccatacat 540
atatatatat atatataggg aaattaatag actagttaat ctgagctgaa catcttaact 600
g 601

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<210> 10047  
<211> 613  
<212> DNA  
<213> Glycine max

<400> 10047

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cgccaatttt ggtctagatc taaatagaca attaatTTTT tttttatgat gttoctcaat 60
ttttatcaaa tgctatttta gtggatgtga gttatgttgc tttttcgag atttttaatt 120
gttttttggg ggtaatttcc cctccaattc acccaaaaa atgttaattg ttatggaaact 180
attaaatcaa tgcaaaaatg gcagaaaaat taatataaat agataaacta agaagcata 240
aatctaatat gaacaaaaaa atcaccaact aagtcgaaaa tgctactcaa aagtgtgatg 300
tgaacatgtg aattgcaaca cctgaaatg gaataaaaca aagaacatct ttcagcgttg 360
gatgttaaaa gaacaaaata ataagccaat aaatgttgaa ccatataatg ataataaaaa 420
aatgtttatg tctatgcact aatagtgtaa aataatttta tattgttctc caatcacaaa 480
tcaccctttt gaattacttt aagataatta ctttaaaagt caacaaattt cccatgcctg 540

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gtgtcttatg acatgatgtc tgggttaaac attttacatt ggcagtgtat aacccttttt 600  
 cttataaaaa aaa 613

<210> 10048  
 <211> 484  
 <212> DNA  
 <213> Glycine max

<400> 10048

tccttaagaa gattcctaaa gaagctagag cttatcttca catacctctc taatagctaa 60  
 gcttacctcc ttgagatgag aagctagagc ttagctacac acctcctata atagctaagc 120  
 tcaccccatg acaaaaaaca tgaaaattca aaaaaaaagt ccttactaca aagactactc 180  
 aatagaatgg ccaaaatata aggccagac gaaggaaaaa cctattctaa tatttataaa 240  
 gataagcggg ctcatactta gcccatgggc ttgaaatcta ccctaaggct catgagaacc 300  
 ctcaggcctt cccttggatc tctagcccaa tctacttga gtcttctacc caatgccctt 360  
 gtggggtagg attgcacat tcctccacc ttggaaagga tttgacctta aatcccgagg 420  
 ttcttcatac tctgggctcc ttcctcaac acctgtaaaa ataacaaaaa catatgtatt 480  
 agtg 484

<210> 10049  
 <211> 619  
 <212> DNA  
 <213> Glycine max

<400> 10049

tcattgagaga gtcaaagatc aaattgagag gaatttttta aactatgcta aacaagccaa 60  
 caaagggaga aagaagggtg tcttcgaacc cggagattgg gtttgggtgc acatgagaaa 120  
 agaaagggtt ccggaacaaa ggaaatcaaa gcttcaacca aggggagatg gaccatttca 180  
 agtgcttgaa agaatcaatg acaatgctta caaagttgag ctgcccgtg agtataatgt 240  
 tagttccacc ttcaatgtct ctgatttacc tctttttgat gcagatggag aattcgattt 300  
 gaggacaaat ccttctcatg agggagagaa tgatgaggac atgaccaaga gcaagggcaa 360  
 ggatccactt gaaggacttg gaggacctat gacaagggt agagcaagga aagccaagga 420  
 agctcttcaa caagtgtgt ccatactatt tgaatacaag cccaagtttc aaggagaaaa 480

gtccaaggtt gtgagttgta tcatggccca aatggaggag gactaaatga caccactttg 540  
 tttcaatatt agagtgggta gtttgtctaa ataatggccc aatccttgta aagttggctg 600  
 acccaaaata tgttttggg 619

<210> 10050  
 <211> 595  
 <212> DNA  
 <213> Glycine max

<400> 10050  
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 ttactataat acactaaagc tccattaaaa actgaaccaa gactacataa tatactacat 120  
 tgcaactgca ttaaacatgt tattgttatt aaccaatttc aggacctaga ggaccctttc 180  
 ccttatttgt gagaaaacta gcttaataata atctagttct ataattaact aaggagttaa 240  
 gagaagctat cccaaaaacg caatatcacc ttcttatgtt tgttcacaaa gttgaatttg 300  
 gaattaacta agtgataagg aagggattcc acaaattcat tcatcctcta aggtgcttcg 360  
 acttttttga attctctttt gtactacata atcaggacat agcttttttc catgatggat 420  
 tctgcacatt tttcttttct gggggcttga agcctgcatt aattcttaat gggacttggt 480  
 tttaacccaa tgggcatgtg cattcttact ctactgctat ctcacttatt tttgggtata 540  
 tttacgtaac gtaaaactcat ttaacttcaa aatttcattt catggtgggg aacat 595

<210> 10051  
 <211> 468  
 <212> DNA  
 <213> Glycine max

<400> 10051  
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 ttacctcctt gagatgagaa gctagagctt agctacacac cttctataat agctaagctc 120  
 accccatgac ataaaacatg aaaattcaaa aaaaaagtcc gttctacaaa gactactcga 180  
 tagaatggcc aaaataccag gccagacga aggaaaaacc tattctaata ttacaaaaga 240  
 tgagcgggct catacttagc ccatgggctt gaaatctacc ctaaggctca tgagaacct 300  
 caggccttcc cttggatctc tagcccaatc tacttgaggat cttctacceca atgcccttgt 360

gggggaggat ggcacattc cctgcacett ggaaaggatt tgaccctaaa tcccgagggt 420  
 cttcatactc tgggggtctt tectctacac ctgggaaaat aacaaaaa 468

<210> 10052  
 <211> 589  
 <212> DNA  
 <213> Glycine max

<400> 10052

tcatgcttaa ctatgtatgt caaaacttca ttactgttgt tcaagacata caagtgaagt 60  
 tgtaacaaat cttctacact tggagtgatc atatgcagtc ctcttgaacc cttaccaccc 120  
 actctgtcat catgccgaga ctcaggaagc ccaacaggtt taggcttctc taagtattct 180  
 gaacaaaatt caatggcttc ttctgcaatg tacctctcaa caatagatgc ttctgggtcaa 240  
 tatagattct ttgtatactc ttttaagatc ttcatgtatc gctcaaccgg gtacatccac 300  
 cytagataaa caggaccaca acatttgatt tctttgacca gatgcacaat caagtgaatc 360  
 atgatgtcaa agaaagcagg gggaaataca tctccaactg gcacagtata attgcggcct 420  
 cattttccaa ctcacaaac ttgactggat caatgacttt gctacatata gcatggaaga 480  
 aaaagcaca gtgagttatc gctaacctga ctttgtttgg caagatgtct cgtatagcca 540  
 cggctaacaa ttgttgcatt agcacgtgac aatcgtgaga ctttaaccc 589

<210> 10053  
 <211> 463  
 <212> DNA  
 <213> Glycine max

<400> 10053

tataacaaat ctaaacaca aagtttgaaa ccaatttgtt gactaaaacc tcgcctatct 60  
 tttctctctt ttaaaagaac aagaaaaata cagaggaagg gaatccctgg aggaaaccag 120  
 gaagaacaaa aaactcagaa ttgaaagaac atgcaatggt cctcttgatt gccccatatt 180  
 tcaagcgtaa tatcgtttta ctacatcgga gttcacgggc gagggcaatt cctcgccatc 240  
 catgtgggtg agtatcaaa cccccaca aaaggctctt ttcaccatga aaggctcttc 300  
 ataatttggg gccacttgc ctcgtttatc tttaacagcg cgggaaatct tttttaacac 360  
 gatgtcccc ttgttgaact tgcgcgggcg tacctttttg ccgaatgcgg gctttatccc 420

ttcgttgaga caaacgccca tggcttatgg cagacaaaac gct

463

<210> 10054  
<211> 563  
<212> DNA  
<213> Glycine max

<400> 10054

tttctttgta cacctacatt cctatacacg ataaactttc tttgtataca catgtatgaa 60  
aaactctttc tctttatata aacacggtct atataacaac tctattctctg ttcaaagact 120  
tctttttcgt ttttcaacat acaaatcgtg gtttatacaa aaactctttt atatacactc 180  
atgggtcaca cacaagaatt ttttttcaca cattattttac acacacacaa aatctttcca 240  
tacacttttt acatataaaa aaatattttc ttttctttat atatacacac gacattttgtt 300  
cacaacccct ctttcttttt ctcttttttt ttattcttgg cgttatcatg attttttgtt 360  
cyttatattt ttaggacgac gttcctaaaag gaaaactcta caagggttaa gaatttcaac 420  
aaacattatc aacaataaca agtaagcat taacgcaaca ggccaaacaa aatgtatgca 480  
caaaacaaaa gacaatcgaa aaaacaaaac aaacgttagt ccttcagtc atagaaacaa 540  
gataacattc caatgataaa tga 563

<210> 10055  
<211> 517  
<212> DNA  
<213> Glycine max

<400> 10055

tcaagaaaaa gatggcctca gcaaatctct tatttctata aggaaattct atcaacagac 60  
ctccaatctt taatggagag ggttaccact actggaaaac ccgaatgcaa atttttatcg 120  
aggcaataga tctaaatata tgggaagcca tagaaatagg gccttatata cccaccacag 180  
tagaaagagt ttcaatagat ggtagttcat caagtgaag cataaccata gaaaaaccta 240  
gagatagatg gtctgaagag gatagaaaaa gagtacaata caacctaaaa gccaaaaaca 300  
taataacatc tgccctagga atgggtgaat atttcagagt ttcaaatgtt aagagtgcta 360  
aggaaatggt ggacactctt cgattaacac atgaaggaaac tacagatgtt aaaagatcta 420  
ggataaatgc actaactcat gagtatgaat tatttacaat gaatgcaaat gaaaatattc 480



agagtatgca aaagagattt acacatatag taaatca

517

<210> 10056  
<211> 530  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10056

actctataga acactcgcgc gttgagaaaa atcaaacgac aataactttt gactttttgt 60  
ctgattgact cccgtaatat atcgagaccc tcgtaattga aaacagaagc tctgagcaaa 120  
ttcaaacgac aataactttt tactcggatg tccgattgag tcccgtata tatggagacg 180  
ctcgtaattg aaaacagaag ctctgagnaa attcaaacga caataacttt ttactcggat 240  
gtccgattga gtcccgtaat atactgagac gctcgtaatt gaaaatagaa gctctgagca 300  
aattcaaacg acaataactt ttaactcggg tgtccgattg tgtctcgtag tatatcgaga 360  
cgctcgtaat tgaaaacaga agctctgagc aaattcaaac gacaataact ttttactcgg 420  
atgtccgatt gagtcccgta atatattgag acgctcgtaa ttgaaaacag aagctctgag 480  
caaattcaaa cgacaataac ttttactcgg gatgtccgat tgagtcccg 530

<210> 10057  
<211> 518  
<212> DNA  
<213> Glycine max

<400> 10057

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cttttgaagc ttgagatta accttaagct agcatgacca agcttcttat gtcaaaccga 120  
ataatgctct ttgactgaaa gtaggcatga aacttttgga ctgacagat caccaagttt 180  
aatcttatac agatttcctt gtgtcttagc ctagaagagt gaagagtttt ccttgttctc 240  
aatgatacac atactcttgt taaaagtgac attgtatcca ctatcacata atttacttat 300  
gctaagcaaa ttatgcttca accctttaac aagcaaaaca ttatctatag aaagataagg 360  
aggaatacat actttaccta caccaattat cagaccttct tgattccgtt cgaaagtgac 420  
caccctacta aaaatagggc ttaggggattg aacatagact tttcacttat catgtgtcgt 480  
gagcaacccc tattcatgca ccacgactga tgtttctt 518

<210> 10058  
 <211> 510  
 <212> DNA  
 <213> Glycine max

<400> 10058

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 ttgattcaag acttcagaat acaatccaag attcaagatt caagagaaga aatcaagaac 120  
 caacaagtea agacttcata taggataagt attaaaatat tttttcaaaa accaaatagc 180  
 acagttttgt ttacaaaaag aattttctca aattttctaa gttaccagag tgattactct 240  
 ctggtaatcg attactagtt ggcagtaaaag tttggttttc aaaatgtttt caaatggttt 300  
 acaacgttcc aaaatgattt tcaaatagtg taatcaatta cactatatta gtaatcgatt 360  
 acaagtgaat ctgaacgttg gaattcaaat ccaattgtga agaatcacia cttttcataa 420  
 aatgaagtgt gtaattgatt acacctttgt ggtaatcgat taccagtga cagttttgaa 480  
 gaagaagtga agagttatta ctcttaacat 510

<210> 10059  
 <211> 633  
 <212> DNA  
 <213> Glycine max

<400> 10059

ccgcttcattg atgaatcaaa aatgattcaa aggtgttttg atgataacaa tgatgacaac 60  
 aaaagataat gacaaagggtg atgaacaaaa agctcaaaag atcaagaac aactcaagt 120  
 aatcaaaaga catctcaagt gaatcaagaa caagtcaaga gttcaagaat caagaagaat 180  
 tcaagactca agaagaaagc ctacaatcaa gattcaagat tcaagatctc aagaatcaag 240  
 atcaagattc aagactcaag attcaagaat gaataaaaga ctcaatcaag ataagtatta 300  
 aaaagttttt tcaaaacttt gaatagcaca tgagtgtttg ataaaacctt taccaaagag 360  
 tttttactct ctggtaatcg attaccatat tgttgtaatc gattaccact agcaaaatga 420  
 gtttgaaaaa gttttcaaac tgaatttaca atgttcctaaa tattttcaaa ctgtaatcga 480  
 ttacaatggt tttggaatcg aataccagtg tcttggaacg ttgaaattca aatttaaatg 540  
 tgaagaatca cattgtttca ctcaaaagct ttgtgtaatc gattacactt attttgtaat 600

cgattaccag tgtttgtttc tgaaaaatct aaa

633

<210> 10060  
<211> 468  
<212> DNA  
<213> Glycine max

<400> 10060

caccttccat caagtgcgga cctcaagga aatccacat tttttccatt ttccggagcc 60  
ccataaatgt tattgcctag cgctattcat gtgtcctcca ccttcgagtt tggagctatg 120  
tttcatgatt gcctaagtcg ggacctcaa ggaaatcttc cattctcccc ctttttcgga 180  
gccccatgaa tgttattgcc taacgctgtt catgtgtcct ccaccttcga gtttggagct 240  
atgtttcatg attgcctaaa agcggacct caaggcaatc ctccattctc cccctttttc 300  
ggagccccat taatgttatt gcctaccgct gtccatgtgt cctccacctt cgagtttgga 360  
gctattgtta catgattgcc taagtgtgga cctcaaggc aatcctacat tctccccctt 420  
ttttggagcc ccattaatgt gattgcctac cgttgtgcat tggtcctc 468

<210> 10061  
<211> 301  
<212> DNA  
<213> Glycine max

<400> 10061

tgagctgtcg agaagcatag gccactactt gtccccgctg aataagcact ccacccaaac 60  
gcatcttata tgcattcacag tacaccacaa agggttcact tgggttaggt aacactaaaa 120  
ctggtgcagt ggccaacctt tccttaaggg tacggaaact attctcacat tgggcatccc 180  
acacaaaaaac tagacctta cgagtaagct tagtcaaagg tgaggctagc gtaaaaaagc 240  
cctctatgaa tatacggtag attcctgcta taccacagaa actccttata tcaaacactg 300  
a 301

<210> 10062  
<211> 364  
<212> DNA  
<213> Glycine max

<400> 10062

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 tcattcaaat acgcctgggt gcttgacaag cttagggtg agcgtgagag aggaattacc 120  
 attgatattg cattatggaa gtttgagacc accaaatact actgcactgt tattgatgct 180  
 ccacgacatc gtgatttcat caagaacatg attactggaa cttcccatgc tgattgtgct 240  
 gtccttatca ttgattccac aactgggtgt tttgaagctg gtatttccaa agatggacag 300  
 actcgcgagc atgctctact ttgccttacc cttggtgtca agcaaatgat ctgttgctgt 360  
 aaca 364

<210> 10063  
 <211> 391  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10063

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 tccttaccac atatggtaaa aataaacatt aacttctatc aaagacacat tgaaaattta 120  
 acataaaaaat ccacaataaa aataagcctt cagacanttg gccagtacct ccggatacca 180  
 gctcggcggtt cttcttttagg gagtggaat agtacaccag agatggatgt aactttgtca 240  
 aagaaatcaa actctctttt aaatatgtca agtgcctttg gattaaaacc atcaattata 300  
 cgctgcctta ccgctggcag caggtctaga aatgaaccat tctgaataaa aaatacagag 360  
 ataaaatcta taaagtatga tgtaaaaaaa a 391

<210> 10064  
 <211> 331  
 <212> DNA  
 <213> Glycine max  
 <400> 10064

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 attcaattaa atttattttc aaccacacac atcaaatatt cacttagtgc atgtgaaatt 120  
 acaaaactac ccctaataca aaaaactagt ctagggtgcc taaaatacaa gggctgaaaa 180  
 atcctatatt tctaaagtac tctacctaca ttatggagcc ctaaatacaa ggcccaaaaa 240

taatgaaacc ttaatctaatt atttacaag ataagtgggc tcatacttag cccatgggcc 300  
 caaaatctat cctaagactc ataagaaccc t 331

<210> 10065  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<400> 10065

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 atttgattat gcacatgaat tattaaggag caatcctgga tcaacagtta agatcaacac 180  
 agtgccaagt ccagaaggtc caccacaatt gcagaggcta tatatttgtc ttgctggctg 240  
 taagaagggg ttgttggctg gatgtagacc attcataggt ctatagtgat gttttctaaa 300  
 gagtgcattt ggaggaaact ttctctctga tggtaggctt gatggaaata accacatctt 360  
 tggtattgct tatgtt 376

<210> 10066  
 <211> 335  
 <212> DNA  
 <213> Glycine max

<400> 10066

aactttttac tcggatgtcc gatagattcc catcatatat caacacgctc gaaattgaat 60  
 gttgaagctc tgagccaatt caaacgacaa taacttttta ctggatgtc cgactgagtc 120  
 tcgtaataata tcgacacgct cgaaattgaa tgctgaagct ctaagcctat tcaaaccaca 180  
 attacctttt actctgatgt ctgattgagt gacgttatat atcgggacgc tcgaaattga 240  
 atgtgaacc tctgagccaa ctcaaacgac aataactttt tactcgatg tctgattgag 300  
 tcccgaata tatcgagacg ctcgaaattg aatgt 335

<210> 10067  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<400> 10067

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 taaaaagtta ttgtcgtatg aattggctta aagcataaac attcaacttt gagcctctcg 120  
 atatattacg ggactcaatc agacatccga gtaaaaagtc attgccgttt gaatttgctc 180  
 agaggctcaa aattcaattt cgagcgtctc gatatattac gggactcaat cagacatccg 240  
 agtaaaaagt tattgtcttt tgagttggct cagaggttca acattcaatt tcgagcgtcc 300  
 cgatatatta cggcactgaa tccgacatcc gagtaaaaag ttattgtcgt ttgaaattgc 360  
 tctgatcttc aacattatat 380

<210> 10068  
 <211> 444  
 <212> DNA  
 <213> Glycine max

<400> 10068  
 gacgctgtaa tgattatagc atgcacacac acacatatat atgtatatga attgttttaa 60  
 taaattagga attaatagtt caaataataa aattaaattg aaggaaatta atatattaag 120  
 attcaatgat aaatactttt aatgcatttt tagtttaatc atttattaac tctttttaat 180  
 ggaaaaataa atagttcaat ttaatatatg catgttttgt gccatgtaaa tattaatatt 240  
 gtgtgatgtg tatatgattc atgagggtgtg ataacatgtt gctttgggat tataacattg 300  
 cgattgaaat tgaatgcatt tgataaattg agtatgtgtt gaattgtaag atacatgtgt 360  
 attgagatgt tgtatgcatt gagtagtgag ttatgaattg tgcaatcaca caattgttag 420  
 accatttaac atgtagcttt gggg 444

<210> 10069  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<400> 10069  
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 ttctcaattg tcacatcttt tcatttggtc ctcgaaatggc tatcaaaggc ctatatatat 120  
 gtgacttgag acacgaattt gctaagagtt ttccagaaca aaaaaaggtc ttatcctctt 180  
 aaaaagaaaa atcgttttat cctcttacaa attccttggc caaaacactt gtgattcaat 240

aaggaattat ttgagtgtct aaattgttca atctatctct ttcaagagag attacttctt 300  
 ttcttcttct ttattctgaa aaagaattaa gagaccgagg gtctcttgtt gtaaagaaat 360  
 ctgaacacaa a 371

<210> 10070  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10070

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 cttccgtttg cccatcggtt tgtgggtgac aagcgggtga aaataacaat ttagtgccca 120  
 acttgctcca caaagtcttc caaaaaatgac ttacgaactt agagtcccta tcactaacaa 180  
 tgctccttgg caaaccatgg agtctcacaa tctccttgaa aaacaaatca gccacatggg 240  
 aagcatcatc aactttttta catggaataa aatgagccat tntagaaaac ctatcaacaa 300  
 ccacaaaaat ggaatctcta ccattgcttg tttttggcag ccctcaacaa aaatccatgg 360  
 attaaataat t 371

<210> 10071  
 <211> 358  
 <212> DNA  
 <213> Glycine max

<400> 10071

agcttgaaat tgaacaacgg aagctctcga gaaaatcgag tggtcataaa ttttcacaca 60  
 gatgtccgat tcggggaaat aatatatcga gacgcacgaa attgaacaac ggaagctctc 120  
 gagaaatttg aatggtcata acatttcact cggatgttcg atccgggggac ataatttctc 180  
 gagacgctcg aaattgaaca accgaagctc tcgacaaatt ataatggctc taactcttca 240  
 cgcgaaatgt cgattcgggg acataactca tctagacgct cgaaattgaa caacgggatgc 300  
 tctcgaaaaa ttgaaatggt cataagtttt cacacggttg ttcgattcgg gaacataa 358

<210> 10072  
 <211> 336  
 <212> DNA  
 <213> Glycine max

<400> 10072

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aaaataatta cggatgaaaa taacgcagca aatattcaaa catcgacaca taattactag 120

tagcatataa atatatatat atcagggtgt tacgactctt ccagccttat agaaatttcg 180

tcttcgaaat ttaccttact cacacaagga tgggtgagct tctcacatct gactatgtaa 240

ttcccatgtg gcattctcta ctgatgcacc tcccagatc accttgacca acagaatctc 300

tttccctctt aggtgttatg ttgcctatc ctgat 336

<210> 10073

<211> 377

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10073

ggccgccacg gagttntccg actatgctct tgtgtggtgt aacaagctac aaaaggagag 60

agcaagaaat gaagagccaa tgggtgatac atggacggag atgaaaaaga tcatgacgaa 120

gcggtatgtg ccggctagtt actcaaggga cttgaaattc aagctccaaa aactaaccga 180

aggcaacaag ggggttgagg agtatttcaa ggaaatggat gtgctcatga ttcaagcaaa 240

tattgaagaa gatgaggagg taactatggc tcgatttctt aatggtttga ctaatgatat 300

ccgtgatatt gttgagttgc aagagtttgt tgaaatggat gattcgcttc acaaaacaat 360

ccaagtggag caacaat 377

<210> 10074

<211> 394

<212> DNA

<213> Glycine max

<400> 10074

agcttcggaa ttccatttcg agcaactcga tatattacgg gactcaatca gacatttaag 60

tgacaagtta ttgtcgtttg aatttgctca gagcttcaga attccatttc gagaaactcg 120

atatattaca ggactaaatc agacatccga gtaaaaaatt attgtcgttt gaatttgctc 180

agagcttcgg aattccattt cgagcaactc gatattattac gggactcaat cagacatccg 240



agtaaaaagt tattgtcgtt tgaatttgct cagagcttcg gtattccatt tcgagaaaact 300  
 cgatatatta caggactaaa tcagacatcc gagtaaaaaa ttattgtcgt ttgaatttgc 360  
 tcagagcttc ggaattccat ttcgagaaac tcga 394

<210> 10075  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<400> 10075

ctacgtgata aaacctaagt gtaataaaaa ataaaaattat ttttttataa aaaatctcat 60  
 acattatatac attataattt tttatgaaa tcattatttt tttttttgca aaataaatat 120  
 tgaacaaaaa ttaagaaaat gaatgaaaa atgtaaattt aataacacat actcaaacga 180  
 ttaaaagtcg atacaatatt atacccatgt taatttgaag atgtcataaa agattttaatt 240  
 gaaattgaga atattttaat aattaaatcc atatttactg actttcattg cttaaaaataa 300  
 ataaattagt gtgagttaaa tttggaatga aaaaaaaagg tggacatcct ttaactagca 360  
 cggatactct cactcaacaa ctatctttta tataatatat gatctg 406

<210> 10076  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<400> 10076

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 tctcatgtga gatgtggtgg ccattgaaga gtacaatctt tgaagtcttg gaattagagg 120  
 aaaatatcac attttttaat caaaattttc ttttcaatcc ctttcattgt gatagtcattg 180  
 tactgacctt tttgatagac aaagcaattt gttatgcttt tatctgggtt tttttccag 240  
 tagcatgtca cctacatatt gagataccgt tctgacatat tataattaga tttgaagctt 300  
 atagcttcca aagtatctaa caattctttt ttattctcac atccttccca tagagggtgtt 360  
 tgagaaacat caagcatata aaagaattct tgagc 395

<210> 10077  
 <211> 391  
 <212> DNA

<213> Glycine max

<400> 10077

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tgaaaaagtt ttttcaaaaa ctgactagca catggatttt tctcaaaaaca tgtttaccaa 120  
agagttttta ctctctagta atcgattacc agattgttgt aatcgattac cagtagcaaa 180  
atggttttca aaaagctttc aactgaattt acaacgttcc aattgatttc aaaatgttgt 240  
aatcaattac aatgttttgg taatcgatta ccagtgtgct tgaacgttga aattcaaat 300  
caaatgtgaa gagtacatt ctttcacaaa aaagctttgt gtaatcaatt aactgattt 360  
ggtaatcgat taccagtgt agtttctaaa c 391

<210> 10078

<211> 453

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10078

tccttaagaa gattcctaaa gaagctagag cttagctaca cacacctctc taatagctaa 60  
gtcacctca ttgagatgag aagctagagc tttagctacac accccctata ataactaagc 120  
tcacccccat ggcaaaatac atgaaaatac aaaaaaaaaa tccttactac aaagactact 180  
caaaatacct cgaaatacaa tgctaaaacc ctatactact agaattggcca aaatacaagg 240  
cccaaacaaa ggaaaaacct attctaatat ttacaaagat aagcgggctc atacttagcc 300  
catggactca aaatctaccc taaggctcat gagaacccta gggccttccc ttggatctct 360  
gytccaatct acttgagtc ttttatccaa tgcccttgcg gggtaggatn gcacattcc 420  
ctccacctg gaaaggattt gacctcaat ctt 453

<210> 10079

<211> 427

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10079

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atcgagacgc tcgaaattga atgttgaagc tctgagccaa ttcaaacgac aataactttt 120  
tactcggatg tctgattgag tcccgtaata tatcgagacc ctcgaaattg aatgttgaag 180  
ctctgagcca attcaaacga caataacgtt ttactcggat gtctgattga gttccgcaat 240  
atatcgagac cctcgaaatt gaatgttgaa tctctgagcc aattcaaacg acaataactt 300  
tttactcgga tgtctgattg agtcccgtaa tatatcgaga cgnctcgaaa tgaatgttga 360  
agctctgagc caattcaaac gacaataact atttactcgg atgtctgatt gagtcccgta 420  
atatatc 427

<210> 10080  
<211> 376  
<212> DNA  
<213> Glycine max

<400> 10080

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taaaaagtta ttgtcgtttg aattggctca gagcttcaac attcaatttc gagcgtctcg 120  
atatatgacg ggactcaatc agacatccga gtaaaaagtt attgtcgttt gaatcggctc 180  
acagcttcaa cattcaattt cgaggggtctc gatatattgc gggactcaat cagacatccg 240  
agtaaaaagt tattgtcgat agaattggct cagagcttca acattcaatt tctagcgtct 300  
tgatatatga cgggactcaa tcacacattc gagtcaaatg atattgtctg ttgaatcggc 360  
tcagagcttc aacatt 376

<210> 10081  
<211> 333  
<212> DNA  
<213> Glycine max

<400> 10081

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cgtcttgagc gtctcaagag ccactgggac ccattttcta ccaactacaa aacctgaaaa 120  
aactatatta tctacacagc aaagtacact tctctatatt tgcctatagg gtgatgttcc 180  
taaggactga aagaacttga ctgagatgta ctaactgac atctaggctc ctactataca 240  
ctaaaatatc accaaaaatgt atttctacca atctacctat gaaattcctt aagacatgac 300

ccataagcct cataaaggag cttggtgcat tac

333

<210> 10082  
<211> 382  
<212> DNA  
<213> Glycine max

<400> 10082

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aacaacaaca caacaataat aataataata ataataataa taataataat aactttattt 120  
tatcaaattct tatcttattc agattttatt ctatctagat tttattttat cccaatttta 180  
ttccatctag attttatttc gtctcgattt tatttcattc aatcttatct tatcttggtc 240  
agattttatt ttatttcgtt tatgatcttg gacttaaaat agattagtga gctttgggac 300  
tgatgacctt tataacaaca ccaaggtttt agtttaggga gtattttttc ggagaggaga 360  
ataattctag gatttttagaa tt 382

<210> 10083  
<211> 423  
<212> DNA  
<213> Glycine max

<400> 10083

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tgaatatctc gagagcttcc attgttcaat ttcgagcgtc tcaatatatt atgcgcctga 120  
atctgacctc cgtgtggaaa gttatgacca tttgaatttc tcgacagctt ccattgttca 180  
atttcgagcg tctcgatata ttatgcgcct gaatcggacc tccgagtga aagttatgac 240  
catttgaatt tctcgagagc ttccggttgt caatttcgag cgcttcgata tattatgcgc 300  
ctgaatcggg catccgagtg aaaagttatg accattttta ttgctccaga gctttcattg 360  
ttcaattttg aacgtctcga tatattatgc gctgaattct gaccttcgag tggaaagtta 420  
tga 423

<210> 10084  
<211> 370  
<212> DNA  
<213> Glycine max

<400> 10084

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atatatcgag acgcttgaaa ttgaacaacg gaagctctcg agaaattcaa atggctcatta 120

cttttctactc ggaggtccga ttcaggcgca taatatatcg agacgcttga aattgaacat 180

acggaagctc tcgagaaatt caaatgggtca taactttcaa ctcgagggtc cgattcaggc 240

gcataatata tcgagacgca cgaaattgaa caacggaagc tctcgagaaa ttcaaattggt 300

cattactttt ctaccgaggc tcagattcat gcgcataata tattgagacg ctcgatatta 360

acaacggagc 370

<210> 10085

<211> 391

<212> DNA

<213> Glycine max

<400> 10085

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acctcccatc tttaatggag tgggttacca ctactggaaa acctgcatgc aaatctttat 120

agagacaata gattttaaata tttgggaagc catagaacaa ggaccttatg ttcctcttat 180

aatagccgga agtgcaacaa tagaaaaacc tagagtagat tggactaagg aagaaagaag 240

attagtacaa tataatttaa aggccaaaaa tattattaca tctgccttag gaataaatga 300

atacttttagg gtttcaaatt gtaaaagtgc taaagatatg tgggatacac tacaagtaac 360

acatgaaggc acaacagatg ttaatagatc t 391

<210> 10086

<211> 456

<212> DNA

<213> Glycine max

<400> 10086

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gagatcatca attcatttgg tttttaaaag aacatcataa atcaatgtat ataccaaaag 120

gttagtgga gtaagatttg ttttcttgta ttatacgtga atgatatttt gcttgcaact 180

aattataagg atttgctata tgagggtgaaa cactttcctt catagaactt tgatatgaag 240

gatatgggag agacatctta tgtcaatggc attaagatcc ataggaaaag atctcgagac 300  
 attttgggtt tatctaagag acctatatta acaaagtttt aaagagattt aacatgaaaa 360  
 attgttcacc aagtgtagct cccattgtga aaggtgacaa actcgatttg aattagtgcc 420  
 cgaaaaatga ttgagtgaga acacatgaag aatatg 456

<210> 10087  
 <211> 424  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10087

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 attacgggac tcaatcggac atccgagtaa aaagttattg ttgtttgaat ttgctcagag 180  
 cttctgtatt ccatttcgag catctcgata tattacggga ctcaatcaga catccgagta 240  
 aaaagttatt gtagattgaa ttgtctcagg gcttcggaat tccatttcga gcgtctcgat 300  
 gtatgacggg actcaatcag acatccgagt aaaaagttat tgctcgttaga atttgctcag 360  
 agnctcaaca ttcaatttcg agcttttcga tatattacgg gactcaatca gacatccgag 420  
 taaa 424

<210> 10088  
 <211> 381  
 <212> DNA  
 <213> Glycine max  
 <400> 10088

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 atggatttgt gtttttcata gggaacacaa cgttcacttg gatgtcaaaa aagtttccaa 120  
 tagtcactct ttcgacttgt gaggcagaat acatagcagc tgcttcatgt gttttccatg 180  
 tagtttggtc caggaatttg ttaaaaagat tgggcatgtc acaagaagag acaaccaaga 240  
 tttttgtgga taataagtca accattgtct tagcaaagaa tccagtgttc catgatcgaa 300  
 gcaaacatat tgatacatgt taccactaca taaggaagtg catagcaaga aaggatgtac 360  
 atatagaata tgtgaagtct c 381

<210> 10089  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<400> 10089

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gaagattgct aaaccactca gtgatttggt gaagaaagga gcttttaatt ggagtgcagc 120
ggcaactgag tectttaatg cacttaagga cgcattaacc cactctccag ttttgacttt 180
accaaacttt aaggaacctt tttccattga atgtgatgct tgcggaacag ggatcggagc 240
tgtgttaaca caagggaaac gtccagttgc atatttcagc aaagggttag ctacttcagt 300
tttaagtaaa tctgtgtggg agaatgtgga tgtgattcag aatctatttc ctgaaattaa 360
ccttgagga 369
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<210> 10090  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<400> 10090

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ctttctcggc gtcatgcatt actttctatg cttgaaacaa aattgattgg tcttgaatgt 120
ttgaaaagca tgtatgaaaa tgatgaaact tttggagaaa tttttaaaaa ttgtgaaaaa 180
ttttcagaaa atgggtttctt tagacatgaa ggctttcttt tcaaagaaaa caaattgtgt 240
gtgcctaaat gttctactag aaattttctt gtttgtgaag cacatgaagg aggtttaatg 300
gggcattttg gggtcacaaa gactctagaa acattacaag aacattttta ttggcctcat 360
atgaaaaagg atgtgtagaa attttgtgaa cattgcattg tat 403
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<210> 10091  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<400> 10091

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agcttgtcaa acattggtaa agcatctata attcatttta ataaatctta ctaaacttaa 60
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ctgagttttg tgccaacaac tataagaagg aatgcaactt aaaaaagaaa aatgcagttc 120  
 aatcattctt tatccttggtg tttctttccg tccctcctaa aaacaccata tcacaaatga 180  
 tgcaatctta ccccaacaagg gcattggata gaagactcca agaagattgg gccagagatg 240  
 caagagaagg ccctagggtt ctcatgagcc ttagggtaga tttcagaccc atggacaaag 300  
 tatgagcccg cttatctttg tacatattag attaagggtt cattatTTTT ttttcttgt 360  
 atttagggct ccataatata ggtaagggtac cctag 395

<210> 10092  
 <211> 404  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10092

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 aagcttttag ccaattctaa cgacaataac tttttactcg gatgtccgat tgagtctagt 120  
 aatatatcga cagctcgaa attgaatgtt gaagctctaa gcctattcaa acaacaataa 180  
 cgttttactc ggatgtccga ttcagtgcg taatatatcg ggacgctcga aattgaatgt 240  
 tgaacctctg agccaactca aacgacaata acgttttact cggatgtctg attgagtcct 300  
 gaaatatatc gagacgctcg aaattgaatg ttgaagctct gagccaattc aaacgacaat 360  
 atacttttac tcggatgtct gattgagtcc cgtgatatat cgag 404

<210> 10093  
 <211> 370  
 <212> DNA  
 <213> Glycine max  
 <400> 10093

agcttaaaca ttcaaatgtg agcgtttcgt tatattacag gtctcaatca gacatccgag 60  
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 atatattacg ggactcaatc agacatccga gtaaaaagtt attgatgttc gaattggctc 180  
 acagcttcaa cattcaattt cgagcgtctt aatatattac gggactcaat cagacatccg 240  
 agtcaaaaagc tattgtcgtt tgaattggct cacagggctc acattcattt tccagcgctt 300



cgatatagta cgggactcaa tccaacttcc gattaataaag gtattgtcgt ttgattggct 360  
caagctttat 370

<210> 10094  
<211> 398  
<212> DNA  
<213> Glycine max

<400> 10094  
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aatgaaagat atgggtgagg catcctatgt gataggaata gaaatattcc atgataggtc 120  
acaaggattg ttgggattgt ctcaaaaagg atataccaat aaagtactaa agagattcaa 180  
attggaaaag tgctctacaa ggattgttcc aattcagaaa ggggacaagt ttagtcaa at 240  
gcaatgtcct agaaatgatt tggaacgaaa gaaaatggag tctatccct atccatcagt 300  
ggttgggagt ttgatgtttg cccaaacgtg tacacgacgg aatattagtt ttgttgtagg 360  
aatgttgggt cgatatcaaa gcaatcctgg aatagaac 398

<210> 10095  
<211> 425  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10095  
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tctaataaat tagaactcct ctgtgcaccc tcttttagact tgttagtttg cttaccctta 180  
atgcaatcta cacaagtctt aaaatcagcg aaatccaaag tactaagtac tccttcattt 240  
actaatcgct tgattctttc aatagagata tgtcctaata tccggtgcca caacatagag 300  
gattctttat tcacaatata tcgttttaac ccaacagaaa cgtgcataga agtagcgta 360  
ttttgcaat taatcgaata aagaccatca accaattgac cacaaccaat tatttcagat 420  
ttatt 425

<210> 10096  
<211> 248

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10096

tygcgcctgaa tcagacttcc gtttcttatg ttatgaccat atgaatttct ccactgtatt 60  
ccgggtgaca agtnatgacc atatgaattt ctcgatagca ttcattgttc aatttcgagc 120  
gtctcgatat attatgcgcc tgaatcggac ttccgtgtga caagttatga ccatttgaat 180  
ttctcgaggg ctcccgctga tcaatttcaa gcttctcgat atattatgag cctgaatcag 240  
acttccgt 248

<210> 10097  
<211> 375  
<212> DNA  
<213> Glycine max  
<400> 10097

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ccatttgaat ctctcgacag ctttggttgt tcaatttcga gtgtctcgat atattatgca 120  
tcttaatcgg acttccgcgt gacaagttat gaccattttt gtgtctcgag agcttccgat 180  
gatcaaatatc cagcttctcc atatattatg tgcttgaatc ggacctccgt ttgaaaagct 240  
atgactatctt gaatttctcg agagcttagg ttgttcaatt tcgagcgtct cgatatatta 300  
cgcacttgaa tccgaaatta gtgtgacaag ttatgaccat ttgattttct cgagaacatt 360  
cggttgtaat ttcca 375

<210> 10098  
<211> 423  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10098

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acataattac taataatata tagatatata tatatatcag ggtgttacaa ttggaattga 180  
tcttgatta gtgggtgaa ccataactaa aattcactaa tcataattac tgaaattttg 240

gctccaaagt ttggctccac aaattcaatt tcaaattcaa gtaaaatttg aattgaaatt 300  
 caaatttccc tctaattttg tgtgacactt aggcataaaa tagaggcat atgtgcgcac 360  
 ttttttaact ttgatcattt gaattattaaa cttcagattt caaagctctt ntagagcaca 420  
 aaa 483

<210> 10099  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<400> 10099  
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 tttcttttgg cgaggccgcc atggaaaagc ggagcgtttg gaatgattta cctgatctca 180  
 gagaattatc ggaaaatgct gccgaaaaca ctaatgccat gctgatatta atttgaatga 240  
 agaattgata ggggcgtgtg aagcaaccgt cgaattcatt ttggcttaac agtgaacgtg 300  
 ctattaatgt taactgattc gatagggcac ggctcagatt gcagtatctg ctataattcc 360  
 tctagcaaac aaatgcccat cttgcccttc agttattcag actgatctgc atccaaagcc 420  
 tttgtgaaaa t 431

<210> 10100  
 <211> 448  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10100

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 aaaaaaagaa acttataaaa tttcatataa atattgtaca aatccaaaaa taattgataa 120  
 acaaaatcat attgaattca agtcgttaaa gcacaaagta taataaaaga aaataaaaag 180  
 agcataatat taaaaaatgt atggattagg tcttcagcct caaagcttac aaatctattt 240  
 taagtctaag ccataaacg aaataaaata aaatctagac aaaataagat aagattggat 300  
 gaaataaaat ctggatggaa taaaatctgg ataaaaataa atctagatgg aataagatat 360

agataagata agatttgata aaataaagtt attattatta ttagttaaac agaccgactt 420  
atncaagctc aacaaacttt ttttatag 448

<210> 10101  
<211> 371  
<212> DNA  
<213> Glycine max

<400> 10101

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ttaaaactga tgcttcggg attggtatgg gggccatct ctcacagcat catcatctc 120  
ttgcctttt tcagcaaacc attttgctcg aaactgctcc gcgcttctac ttacgtctga 180  
gagattgcta caatcattgt cgcggttaag aaatggaggc agtacctct agggcatcat 240  
tttatgatcc tcacagatca tcagagctta aaagagctca tggctcaagc tgtgcaaact 300  
ccagatcaac aaatttattt ggcaggctta atgggctttg attatacgat tcaatatcga 360  
gccggaaaag c 371

<210> 10102  
<211> 496  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10102

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aatgcagatg tcagaattct gatatttctt agaggatcac tagtaaaagg atggattagt 180  
gtttgagaac agagggcata aggagattat tacctatact taataggaga tccacatatg 240  
gatattgtgt tctattagga gtgaatctct ttcattgaaa acctcatgaa gcaaaatgag 300  
gttgcaaagt ccagagctga agcagaatat caagctatga ctctcactac ttgtgaacta 360  
atatgtctaa aaacaaataa atgactcatt aaagagctaa aattntgtga ggtangaact 420  
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gcataccaca catata 496

<210> 10103  
 <211> 358  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10103  
  
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 tatgtccacg aatcagacat ccgagtgaat tgttatgacc attcgaattt gtcgagagct 120  
 tccgttggtc aatttcgagc gtctcgatat attatgtccc cgaatcgaac atctgagtga 180  
 aatgttatta ccattcgaat ttctcgatag cttctgttgt tcaatttcga gcgtctagat 240  
 gagttatgta cccgattcga acatccgagt gaaatgttat gaccattcga atttctcgag 300  
 agcttccggt gttcaatttc gagcgcttag attattaatg tccccaaatc ggacatct 358

<210> 10104  
 <211> 407  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10104  
  
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 atcttgccag atagaacatg aagaatgatt actccaaatg tgtatatgtc acgtttctca 120  
 gtaaagcacc ttgtggtgat gtattcagga gctaagtatc ccatggcaac actaaacttt 180  
 agagctaaga aaacaacttc atctgcaaga agcttaggta ttctagcacc tatgatcaat 240  
 aggttaaaact atgctctagg agaacatttt ccaactgaaat attctgggtg actattgtag 300  
 gtttactttc ttatttgata tgaagatata caatgcctgg tcataaatga ataacaaata 360  
 ccaaacaaaa aaaagaagca gatattatct acaactatta atatttt 407

<210> 10105  
 <211> 360  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10105  
  
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tacgagacat cttgccaaac aaagtaaggt tagcgataac tcgcctgtgc ttttttttcc 120  
catgctatat gtagcaaagt cattgatcct gtcaagtttg atgagttgga aaatgaggcc 180  
gcaattatac tgtgccagtt ggagatgtat ttteccctcg cttttcttga catcatgatt 240  
cacttgattg tgcatacgt cagagaaatc aaatgttgtg gtccgtgtta tctacagtgg 300  
atgtaccgga ttgagtgata catgaagatc ttaaaagggt atacaaagaa tctatatcgt 360

<210> 10106  
<211> 475  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10106

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gatcaaatgg agaatagaga tcataatgaa gaagaaagga ggagaagagg gaatgatggt 120  
gttcctagac aaaaccgaat tgatggtatt aaactcaaca ttccctccatt taaaggaaag 180  
aatgatccgg aggcctactt ggagtgggag atgaaaatag agcatgtttt ctcagtcaac 240  
aactatgagg aggacaaaaa ggtgaagctt gccaccacgg agttttccga ctatgctctt 300  
gtgtggtgga acaagctaca aaaggagaga gcaagaaatg aagagccaat ggttgatata 360  
tggaaggaga tgaaaaagat catgaggaag cggtatgtgc cggctagtta ctcaagggac 420  
tcgaaattca agctccaaaa actaacccaa ggcaacaagg gggttgagga gtatt 475

<210> 10107  
<211> 407  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10107

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gatctagtcc cgtaatatat cgagacgctc taaattgaat gttgaagctc tgaccaaatt 120  
cagacgacga taaattctta ctcggatgtc tgattgagtc ctgtaataata tcgagactct 180  
cgaaattgaa tgctgaagct ctacgcaaat tcaaacgaca ataactttat actcggatgt 240  
ctgaatgagt cccgtaatac atcgagacgc tcgaaattta atgtggaagc tctcagcata 300

ttcaaacgac aattacattc tactcctatg tctgatagaa tcccgtaata catcgagacg 360  
ctcaaaattg aatgttgaag ctctcagcaa attacaacga caatagc 407

<210> 10108  
<211> 403  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10108

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gagaaaagnn ataggcatnc gcacccgctc agagcatcaa cattcaattt cgagcgtgtc 120  
gatataattac gggactcaat ccgacatccg agtaaaaagt tattgtcgtt tgaatttgct 180  
cagagcttcc gcattcaatt tcaagcgtct cgatatatta caggactcaa tcagacatcc 240  
gagtaaaaag ttatggctgt ttgaatttgc tcagagcatc aagattctat ttcgagcgtg 300  
tcgatataatt atgggactca atcagacatc cgagtaaaaa gttattgtcg cttgaatatg 360  
ctcagagctt ccgtattcaa attcgagcgt ctcgatatat tac 403

<210> 10109  
<211> 335  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10109

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gttgctgttg ttggattggt ggaggaatgt atggctctgct tgggccagca gcattttgga 180  
aggaaggagc angtcgtctg tgttggtgct gagggctgga ccactcgagg ttagggtgat 240  
tctccatcc agggttatat ctgttgctgg agaggtcata attgttctgc tgtgggtgat 300  
tttgctgctg aggttgagga ggtctattgt aaata 335

<210> 10110  
<211> 455  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10110

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attctcaaca gtcacatctt tttgtgtggt tcttgaatga gtatcatagg cctataaata 120  
tytgacttga gacacgaatt tgataagagt ttttcagaac aaaaagggtct tatcctctta 180  
taaagagaaa tcgtttttatc ctcttacaaa ttccttggcc aaattacttg tgattcaata 240  
aggaattatt tgaatgctca aattgttcaa tctatctctt tcaagagaga tttcttcttc 300  
tcttcttctt cattctgaaa agggattaag agaccgaggg tctcttggtg tgaagaatt 360  
ctaaacacaa aggaaggggt gtctgttttt gtgtgtntag aaactcgaaa aggaattaca 420  
agatagtgga actctcaagc ggggtgcttg ggact 455

<210> 10111  
<211> 430  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10111

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ataccgtacg ggactcaatc ggatatccga gtgaaaagtt attgtcggtt gaatttactc 180  
agagcttctg ttttcaatta cgaacgactt gatatctac gggacacaaat cggacatccg 240  
agtcaaaaat tattgtcggt tgacttttct tagagcttcc gttttcaatt ttaagcgtct 300  
cgatatatta gagagctcaa tcggacatct gagttaaaag ttattgtcgt ttgacttttc 360  
ttagagggtc cgttttgaan tcgaggggtc cgatataata caggggtcaa tccgacattc 420  
cagntaaaag 430

<210> 10112  
<211> 446  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10112

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cagntatgtg aatgtacagt tagcaaagcc gatacattct atcgtttgtt tagttgagtg 120  
cattgatgtc tatatcctac catagctctg ctttttatga cattcattat gatcatttga 180  
taggtttctt atgagattaa caaaagatga cagtggagtc aacttagcta atggcgaagc 240  
agaacgtgaa tgtgcataat ggaaatgggc agaccctgaa gaagttattg agcagagtgt 300  
gtggaaaaaa ggagatttga aataggtgta attttntcc atttgaaaga ctaataatga 360  
atgatgactg attacaggca gtggactaca cgagaccaag ctatgaagaa gttatatgaa 420  
ccttcaagcc ttactttcaa gggagt 446

<210> 10113  
<211> 465  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10113

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tgaattgggc aggtccatg atttgattga gcttgatctc agtctcaacc atctcaatgg 180  
gactgttcca cctgctatat acaacttato tcccttgtc aactttgcct tagcttcaaa 240  
ctctttctgg ggtgagattc ctcanagtgt tggtcacaaa cttccaaaac tcatagtttt 300  
ctgtatctgc ttcaattatt tcacaggtag aattccaggg tctttgcata acctcaccaa 360  
cattcangtc attcgtatgg cttccaacca tctggaaaga tcagtgccac ctgggttttg 420  
gaaatctcca tttctttgca cgtataacat tcngtataac tggat 465

<210> 10114  
<211> 435  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10114

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agttntatag ttatttttat ttcaataaac tggtttttat ttaaaaaaat acatatagtt 180

ataaaactat aactagttnt atagaaatga ttatttcaaa taacttattt ttattcattc 240  
 atagccagtt atgtaattga ttttagatat aaccggttat aactagaatt ggaatgttgt 300  
 gaagtagaga agaaggcact agaagcagag ttccaaccag tacttgatcg aatatatgat 360  
 aaagagactg ctngcaagga gacactangt aaaacacagg atgagtctgc tagaatatct 420  
 canactatca gaaat 455

<210> 10115  
 <211> 488  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10115

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 aaaactcagt agcttctttc gcaatgtact tttcaacaat aaatgcttca ggacggtgta 180  
 gattctttgt ataccctttt aagatcttca tgtatcgctc aaccgggtac atccaccgca 240  
 aataaatggg accacaacat ttaatttccc tcaccaaata aacaattaag tgaaccgtga 300  
 gtgcgaaaaa tgaaggagga aaatacatct ccaactgaca caagataata gtagtctcat 360  
 tttccagctc atttaactta agaggattaa tgactntgct acatatggca ttgaagaaaa 420  
 aacacaggca agttacggca tgctgactn tcttagaaaa aatgtctctt atcgccacaa 480  
 ctaacaat 488

<210> 10116  
 <211> 479  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10116

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 atggtcataa cttgtcacac aagagtccga ttcattgcga tagtatatcg agaagattga 180  
 tattgaacaa cggaagctct cgagacactc aaatgggtcat aacttattac acggagggtac 240

gactgatgca cataataaat cgagacgctc gaatatgaat aacgaatagt ctccagacat 300  
 tcatatgggc ataaatgttg aaacggaagt tggattcacg cgaatcatat atcgagaagc 360  
 ttgaaattga ataacggaag ctctcgagac atgagatggg ataacttgca cacggaagtc 420  
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<210> 10117  
 <211> 453  
 <212> DNA  
 <213> Glycine max

<400> 10117  
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 gtcttcgaca aagagtgcag acgaccatgt tggctctctat gatgtagctc cattggagct 180  
 tgtaggccat ggatcttctt catcaatgga gtccattgct tcttgaattt taatggcagt 240  
 ggaatggaga agaagaagag ttgagaggag acgcctcttc atgaagaaga tgagtctaga 300  
 agaacctcac caccatagga agccatggat aagagcttga aagtatgaga agatgactgg 360  
 agggagaggg agagaagggg cacgaaattt tgtgcctcaa atgatgtcta aactttgaag 420  
 tgtaattctc acatgatcaa agattgaaaa atg 453

<210> 10118  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10118

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 ctacacacac ctctctaata gctaagttca ccccatgac caaaaaacat gaaaatacaa 180  
 aaaaaaagt ccttactaca aagactattc aaaatgcctt gaaatacaag gctaaaaccc 240  
 tatactacta gaatggccaa aatacaaggc ccagacgaag gaaaaacctt ttctaataatt 300  
 tacaagata agcgggctca tacttagccc atgggctcga aatctaccct aagggtcatg 360

agaaccctag ggccttcctt tggatctcta gcccaatcta cttggagtct tcta 414

<210> 10119  
<211> 386  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10119

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agaaattnga atggtcataa catttcactc ggatgttcga tccggggaca taatttatcg 180  
agacgctcga aattgaacaa ccgaagctct cgacaaatta gaatggctgt aacttttcac 240  
gcgaatgttc gattcgggga cataactcat ctagacgctc gaaattgaac aacggaagct 300  
ctcgagaaat tcgaatgggc ataagtttct acacgggatgt ccgattcggg aacataatat 360  
atccagacga tcgaaattga acaacg 386

<210> 10120  
<211> 487  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10120

tacagatctg ttntaaatct aatcccataa ataaaataat atctatataa gataagatct 60  
agatgaaata atatctagat gagatcaaat ctaaataata tctagataag ataaaatntg 120  
gtagaataaa atagtctgct ctcttcaagt ccaagcccaa ttgcttataa ttctctgaa 180  
attaaattaa aaacacaaaa ttaatctagt aggcctaaat gataaaaactg cataattaat 240  
ttgataatta agactaatca gtaattaaaa tgggtgcaaaa aggggttaaga aataggagaa 300  
aataatggca catcagttag acatgaaaaa agatcatgga actcacaag caagaagggg 360  
gagaattagt tctaaatcaa atcaaaccaa aaaatacgag ttgagaaac ttctatcca 420  
aggatcgtat cacannattg tgctaanaag ttctntaaac ttcagcaaat tgatcaagaa 480  
tacaatg 487

<210> 10121

<211> 503  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10121

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gcttcatgct taactatgta tggcaaaact ccattactgt tgttatgaca tacaagtgag 60
tttgaacaa atctttctaca cttggagtga tcacctgcag tcttcttgaa cccttaccac 120
ccactctgtc atcatgccaa gactcaggaa gcccaacagc tttagccttc tctaagtatt 180
ctgaacaaaa ttcaatggct tcttctgcaa tgtacctctc aacaatagat gcttctggac 240
gatatagatt ctttgtatac ctttttaaga tcttcatgta tcgctcaacc gggtagatcc 300
accgtagata aacaggacca caacatttga tttctctgac cagatgcaca accaagtga 360
tcatgatgtc aaagaaagca gggggaaaat acatctccaa ctagcacagt ataattcggg 420
cctcatttcc caactcatca aacatgactg gattaatgac tntgctacat atagaatgga 480
agaaaaagca caggcgagtt atc 503
```

<210> 10122  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<400> 10122

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tatagaaact aagctgtcac aaaccaacaa ttatatgtat tcttcccgtt tgcttttctc 60
attctctatc tcccttagct ataatacatg ttgatatttg gggtcctgt tcaaccactt 120
ctatacatgg tcataaatat tttcttacta ttgttgatga tcataactaga tttgtttggg 180
ttataccaat gtcttctata gctgaaactc aatctctttt acaaggtttt attaaatctg 240
ctgaaaggca atttgataca aaagttaaag ttatttgctc aaataatggg gatgaattta 300
tcattagtea tttctttcaa gccactggta ttattcatca aacaacatgt gttgaatact 360
cccaacaaaa tgggattggc gacaaataac atcaacatct acttaat 407
```

<210> 10123  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 10123

agcttatnt agtccatata ttgttttctt tattttacac actatatatt cctctctgt 60

agaaacaaac cctttgagtt gattccatata aactttcttct tctaagtcac cattcagaaa 120

aggcgggtctt tagatccatt tgggtgaagct ccaaatacaa tgagccacta aagccaacac 180

aagccacaaa gagtctctct tagaaacaga agagatagtc tctttgtagt tgatgcaatc 240

ctatcccgca agggcattgg atagaagact ccaagtagat tgggccagag atgtaagaga 300

aggccctagg gttctcatga gccttatgat agatttcgga cccatgggct aagtatgtgc 360

ccacttatct ttatacatat ttgattaaga ttccattatt tttgggcctt atattt 416

<210> 10124

<211> 454

<212> DNA

<213> Glycine max

<400> 10124

agcttaagaa aaagcgatga tttggggcct tgacttatac tactcttttc ctaaataataa 60

acaaaattaa ctaactttta tgctaattaa gttagtaaat atcatctaatt tccactaatt 120

acatttaaga aacaaacttt tttcctaaaa tacccttcaa tggaacctaa tatcaaggac 180

aaaaggagtc attggaaata gaatctgaat taattgaagg gtatttttga gatagtatca 240

ttaaataggg tggaagtagt taggatttac ttatatgtgt caaaaaagggt tttttttttt 300

gttgcttaaa attgatccgg agggagtaat acttattcta aggacttcat cattgtattt 360

gaaaagaaca atataaagaa tcctaccgt cgggtggtct ggtaatagat atcaagttgg 420

gtctggtaat agttatcaag ttgataatag atat 454

<210> 10125

<211> 365

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10125

ctgaggcgtg caagccttagg agaacgatct tggaagaggg ccttaaatgn tttatgagta 60

tccacctggg agcgactaag atgtactacg accttatgca gatgttttgg tggccgggta 120

tgaagagaga agttaatgag tttgtccttg cgtgcctaata gtgtcagaca gctaagatag 180

aacacccaaaa gccttttaggg tagctgcaac ctttagagat acttgagtgg aaatgggata 240  
 acatcttcat ggatttcacg gcgggggttc ctaggacccc caaagggtta gattccattt 300  
 ggggtattgt agacagggtg acgaaatctg cttacttcat cctaattaac atcatatatt 360  
 cctta 365

<210> 10126  
 <211> 332  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10126

agctttcaga attcgaaggt ttctgtttta cacagatgnc caanncgggg gcataatata 60  
 tcgagacgct cgaaattgaa caacggaagc tctcgagaaa atcgaatggt cataactttt 120  
 cacacgaatg ttcgattcgg ggacataact catctagacg ctcgacattg aacaatggat 180  
 gctctcgaga aattcgaatg gtcataagtt ttaacacgga tgtccgattc gtggacgtat 240  
 tatatcgaga cgctcgaaat tgaacaacgg aagctcccga gaaatttgaa tggtcataac 300  
 atttcaactg gatgcccacaa ttcggaacat aa 332

<210> 10127  
 <211> 453  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10127

acctgcggca tgcaagcttc tcanagaagc ctctcaagga agcttctcat acttatctac 60  
 ctaaacctat ttcggtaaaa ttgttctccc ggattcgtta accgttgat catcttaaaa 120  
 tcttttctgg aggttcttag gacaactgtc cacagtgttg ctgttgcat ttgcaatata 180  
 acatttggtg tgtgagatat gaatttttta cggaagcaaa aaatttgagt gttgcaggct 240  
 ttaaattagt gagattgtca gattaaccgc cttgtatatt tatgagattg tcagattaca 300  
 tgggtgtcca tctagcatag tgtctgatag agatcctagg ttacacctta gattntggga 360  
 gagcctgaac agagcattgg gaaccaagct tagactacgt tcaacttacc atcctcagat 420  
 tgatggccaa actgaacgga ccattcagtc act 453

<210> 10128  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10128

ntgngctcaa tagctccaat aacgtctatt ccctatatat attacggcca aggcactgcc 60  
 aagatgttca aaggtacaag cgaagcattg acattatcaa cgaaggcctg gcactttgtg 120  
 cacttttcca cacaacaatc attttccata gtgagccagt aataccctgc cctcangatc 180  
 ttccgggcca tggcatgtcc gttggcatgt gttccaaagg atcccttatg cacttccatt 240  
 agcatctgct cagcctccct ggcataca caatcgaggca aaaccaaatc atgggttcctc 300  
 ttgtacagga tatttccact tangaaaaag tcggctgcca acctctgcaa cgttctcttg 360  
 tcattgtcgt tggcatgtgt tccaaaggat cccttatgc 399

<210> 10129  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10129

cttcaatcaa tctttggcta tctacattag tgcaactact cncatcaata accaaagagc 60  
 atatcttctt catgatcatg cacctaggat gataaatgtc ctccctctga gttgcgtctc 120  
 tatecttaca cacactcccc attaacctcc taacctcaa aagatcacct tccaggggct 180  
 gtacatcaca ttcactttca ctctcactag aacaactaga agagctagaa gaagatgcac 240  
 tagtgcatac ccattatccc aacacaacca tagtcctttt gttaggaaat tgggaggcaa 300  
 tatgacccta tcttaaatat ttaaacatc taatagaact cacctttaa gaagtgggag 360  
 taggggtaga attatntgta ccaagggcaa tactgatttc atg 403

<210> 10130  
 <211> 224  
 <212> DNA  
 <213> Glycine max

<400> 10130



cacacacaca aacacacgca cacgcgcata ctctcactga cgcacacaca catacacagt 60  
cacacagtga gacggacaca ctccacacaca cgggtggaaga agaattgatgg ttctgatctg 120  
gataccgaga aatgacctgc agatgtcaga ctgggactat gcagagatag aaggaatata 180  
catggctctt taagcactca acacagttca tgagccgttc tact 224

<210> 10131  
<211> 298  
<212> DNA  
<213> Glycine max

<400> 10131  
ttacaaagca ttcatgtag ttccctacga tattatTTTT atctTTTTtg atattacact 60  
ctaaattgat atagactgat aaacaaatta aaaatagtat ttatattatg agacctattc 120  
ttaaattggat agattaaaaa gtgcaatgta tatatacaac tatgaagatg atatcaataa 180  
tttaatcata ttatatgta acattgatca tgtctatttg attcataatt aattgaatat 240  
ctcgaagaat ggtcatgatt agttgataac tatagcgagg taaccaatat tattaat 298

<210> 10132  
<211> 429  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10132

ntccttgccc cttgatatat ttgagggact catggtcact atgaatgaca aattccttgg 60  
gataaaggta gtgttgccat gttttcaaag cccgtactaa ggcatacaac tccttatcat 120  
aagtgaata gttaagggtg gggaccactt aacttttcac taaaataagc aatgggatgg 180  
cttcttggat taacacagcc ccaatcccaa catttgaagc atcacactca atttcaaaag 240  
atTTTTgaaa gtttggaac gcaagtatgg gggcattagt tagcttttgc ttaagaacat 300  
tgaaagcttc ttcttgtttc tctcccccatt tgaaaccaac attnttcttg agcacttcac 360  
tgagagggtg tgccaatgtg ctaaaatcct tcacaaatcg tctataaaaa cttgctaagc 420  
catgaaaac 429

<210> 10133

<211> 318  
 <212> DNA  
 <213> Glycine max

<400> 10133

agcttctggt tcaataacga gcgtcttcta tattactggc ctcaatccga catcgagta 60  
 aaatgttatt gtcgttagaa ttgtctcaga gcttctgttc tgtaatttga gagtctcgat 120  
 atactacgga acacaatcgg acatctcagt aaaaagtat tgctgtttga atttgctcag 180  
 agcttctggt cttaattacg agagtctcga tatattacgg gattcattcg gacatccaag 240  
 tataaaagta ttgccgtttg aattgtctaa agcattcttt gtcaattacg agcgtttaga 300  
 tatattacgg gattcatt 318

<210> 10134  
 <211> 481  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10134

tacgcgacac tatgaaactc agcttaaggc aatccttctc tgctgatgtc cactactgta 60  
 tctgttccaa atgttgagtt tctacttca gctgctactg tcaataatac ttctaattatt 120  
 gtttcaaatt ctaatgttac cttttctagt agtggttaac ttgggcatgc taggtagga 180  
 catcctaatt atcatgtaac gaaaattgtt ctcaaatagt ataattttc tcaactgaat 240  
 aaaaacatca cagagttttg ttctcttctg tgtatgggtc aagctcatag gttacccaaa 300  
 gaaatttgat tataatttaa ttctgtggcg tcataagttg aaagttcata ttcttcggtc 360  
 attgataaac aatttggttg acaatattca ataccatgtt acctcaactt tngttttattc 420  
 atcttttaga ctcattntca ctaacctatg gngaaccctc catgtacctc ttatgttgct 480  
 a 481

<210> 10135  
 <211> 326  
 <212> DNA  
 <213> Glycine max

<400> 10135

agcttgatat taaacaacgg aagttgtcta taaattctaa cggtcataac ttatgacacg 60

gaagtcgat ttagtagcat aatatatcta aacgctcgaa attgcacaac ggaagctctc 120  
gacaaattaa aatgggtcata acttggcaca cggatgtccg attgtggcgc atgatatacc 180  
gagacgctcg aaattgaaca acgaaggctg tcgagaaagt taaatgggtca taacttgtca 240  
cacggaagta ctatatcgac gcaaaacata ctgagacacg tgcaatttaa caacggaaac 300  
tggtcagaaa ttcaaatggc cataac 326

<210> 10136  
<211> 419  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10136

agcttaacag caataaaaag catcaaagtt attcaaagat ttactcacat taactaccac 60  
aagcacgatt gacagtgaag aatcataaga tttgatttaa tgcctaattg cacacctgac 120  
atccagtaga tcaactctaa ctcatgatga taagaaagga aacatgcaca acaacaattt 180  
cattaccttc ctctaataag agctgaattg atctcttctc taactcaaca gcatgcttgc 240  
taagttcaac tgaggacagg gagcgaagca ctgccaaagg atgagatatac agctatataa 300  
natatcaaga acttcataag aaagctttga gggattattt aagggtcctg acatactttg 360  
atatatcttc ttgtctgatt ggccaattc tcaaaacatc tgcaattggt ggatcgctc 419

<210> 10137  
<211> 445  
<212> DNA  
<213> Glycine max

<400> 10137

agcttcattc tacacctgaa aaagagggtt agttatttgc acaaaagaga aagcttctca 60  
acaaaaaatt tcatgcagat ggaccttctt ctagtaattc tgacttacaa tagcctcata 120  
tccttcttcc attcccacct agagcgattc caaacaaaaa gatggaagaa gtggaaaagg 180  
agatctttga gaccttcagg aaagtagagg tgaacatacc tctattagat gccatcaagc 240  
agattccaag atatgccaag tttctaaagg agttgtgcac ccacaaaagg aagctcaaag 300  
gcaatgaaca gattagcatg gacagaaatg tgtagcatt gataggtaaa tctgttcttc 360

acattcctga gaaatgtaag gaccagga cttttgtat accttcatt attgggaata 420  
 gtaaatttga gaatgccatg ctaga 445

<210> 10138  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<400> 10138  
 tgagaatgga gaattgcact aagcaatcac tacgcatagc ttcattctcg aagggtggagg 60  
 acacatgaac gaaaacgcaa ttcattgggtc tccgaaaaga ttgagaatgg agaattgcac 120  
 taagcaatca ctacgcatag ctccaaactc gatggtggag gacacatgaa tgaaaacgca 180  
 attcatgggg ctccgaaaag atggagaatg gagaattgca ctaagcaatc actacgcata 240  
 gctccaaact cgaagggtgga ggacacatga acgataacgc aattcatggg gctccgaaaa 300  
 gatggagaat ggagaatggc actaagcaat cactacgcat agctccaaac tcgaatgtgg 360  
 aggacacatg aacgataacg caattcatgg 390

<210> 10139  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<400> 10139  
 gattatgccc tgagctgtag acttgtgaca ctacattaat atttcataat taattaaaat 60  
 tatattttga aaaattctat aatgcgctta agttcgatac tgattactta actttagaaa 120  
 attaatctga taagacattc tgacgtgctt ttttttcacg agtcttataa taactataat 180  
 cttcagaact aatgtaagtc aagtataaaa ataataagatt atataaatat gatttagata 240  
 aattatttat gattcaaaa caattattta actaccaatt aatctaatta ggtcaatttt 300  
 acaactctac tccaatgga ccaatattaa ctatattatc tataattaac caatttctat 360  
 aaaatattat gtcttgatat ctgaaccaat ttattacaac tcaaaactaat attttaat 418

<210> 10140  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223>        unsure at all n locations  
<400>        10140

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tgtgtcacac tntcaattgt cgaagctgaa tacatttctt cttgaagttg ttgtgctcaa   80
agtcctttgga tgaagcaaca atgatgtaag ctccattgga gctttagtagc ctatgatctt  120
cttcacatcaat ggattccttt gcttctttgga agatgaatgg cagcgggaatg gagaaaggaa  180
gagagagagg agacgccact tcaaggagaa gatgagtcta gaagaagctc accaccatag  240
gaggccatgg ataagagctt ggaggaagaa ggagatgaat gaagggagag ggagagaaga  300
gcacgannat ttgtgctcta aatgagctct gagatctgaa gtttaattatt caaatgatca  360
aagttgaaaa aaatgcacac acatgacctc tattatagcc taagtgtcac acaaat      416

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<210>        10141  
<211>        432  
<212>        DNA  
<213>        Glycine max

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<400>        10141
aagcttctta tttagatgat gctattgttt gtagctacct catgcactcc tctaattgact   60
atggcatcat ttctggcgct aaactgctgg gagttggagg ccatcttctc aattaaattt  120
ctggcttcag caggagtcac gtctccaagg gctccaccac tggcagcatc taccatactt  180
ctctccatat tactgagtc ttcataaaaa tgttggagaa gaagctgttc tgaaatctga  240
tggtgagggc aactggcaca tagtttctta aatcgctccc agtactcata caggctctct  300
ccactgagtt gtctaatacc tgagatatct ttctgatgg ctgtggctct ggaagcaggg  360
aaaaaatttt ctaagaatac tctcttaagg tcatcccagc tcgtgatgga ccttgagaca  420
aggtaataca ac                                     432

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<210>        10142  
<211>        299  
<212>        DNA  
<213>        Glycine max

<223>        unsure at all n locations  
<400>        10142

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gatctctaag tcacgctgct gcagcttgcc aaaaggtttt gtttcttttc tttnanagcc   60
aaagatgctg ttgccacttc tatgccctga gagcttctac accttgactt gtttgaccca  120

```

accacaactg catttttttc tggacacaca tattgtctgg tcatattgga cgattacacc 180  
 aaatggacat gggccaattt tctaacctac aaggatgagt attttgatac cttttataaa 240  
 ttacgtaaaa atattgaaca tgaaagaaat aattgtattt tttcaatcaa aagtgatca 299

<210> 10143  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10143

actcaagctt agaatgcaga agaagcaaca acaatcaatt taanattggt ctataaacat 60  
 gcaaggcaaa aatgatggca ataacataaa tgagataagg gaagagagaa tgcaaacact 120  
 tatttatact gggttcggcca cttcccgctg ctacatccag tactcaagca acccacttga 180  
 gatattccact aacttgtaaa ttccttttac aagtactaaa cacacaagga caacccttcc 240  
 tttgtgttta gagattcttt acaacatgag actcacagtc tcttaatccc ttagagaatg 300  
 agaagaagaa tatgaaccaa tctctctaca agagatggat gtacatatga gcaactcaatt 360  
 atttcttatg aattcaattg aatggccaac gaattttaaa ggataa 406

<210> 10144  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10144

cactatacga aactcaagct nttagctctg cagtntatct tattaataga gngcctttat 60  
 ttgtgnnaat ctttaagaga cctcttgata ccttttctca tcatttcacc cttaattttg 120  
 tcaatcattt accaccctat attttttgtt gtgccatata tgtgcatttg catectcacc 180  
 agcggaaaaa attagaatct agagtaatga aatgtgtttt tgtgggatac aacaccactc 240  
 aaaagaagta ttaggccaat catccatcta caaaaaaaaaa ttgcatcaat ggatgttaca 300  
 tttcatgagc atgaattgat ttttcccttg aatacacttc attcttcacc ataaagcgag 360  
 ggggatgggg gtgaggtggt ttcctaagaa aaatacaatg 400

<210> 10145

<211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10145

ctttgtnntt tggagtgtaa gagggcatga aaatgataga ttgttggtga ggttcctct 60  
 ttaggccaac atttggtgag ggttgtagca tgttgattct tcgcacctag atgatgtgaa 120  
 aatattgttc accatgtatg tgtgtatata tatagcatga aattgactgt caagtgtgta 180  
 tatatatcaa aaaaaatgcc acccaaaata gagtaaatgt aggtagcaaa aataccttgc 240  
 caatttgtat atgtgttttag ataggtagca aataccttat aaatatgtat gtatgttgat 300  
 ataggtagca aaatacctgg aaaatatgca tgtgtgttga tatangtagt gaaaaatgtct 360  
 tgcanatatg taggtatgtt cataaaatgt ttctcttcaa gaaaaaaatg tgt 413

<210> 10146  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10146

gctgaagttg tacatgacca atcttttagta atcgctttac tttttgcagt ttttgtattc 60  
 gnttaaaatg catgaagata gatcagtagg agaacaattg gatttgttta ataaactgat 120  
 tctagatctt gaaaatattg atgtcactat tgatgatgag gatcaagctt tgttattgtt 180  
 gtgctatttg cctaagagtt actctcattt caaagagact ttattgtttg gaagagattc 240  
 tgtttctctt gatgaagtgc agactgctct gaattcaaag gaattgaatg aaagaaagga 300  
 aaagaagtcc tctgcaagtg gtgaatggct gacagcaaga ggcaagacct tcaagaaaga 360  
 tagtngaatt gataagaaga agcanaagcc agaanatcag aagaatggtg aatgaaacat 420  
 cttcaaaatc agatgttatc ac 442

<210> 10147  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10147

agcttatgaa ctccnagaag ttatatgtta ctaatgtaaa aaaagggatc taaatcgaag 60  
 atgcttaacc cattatgatt tetgaatgtc atgctcatcc acacctacac aatcccatgc 120  
 aatcgcagct taaaaatata tagtaactat gttgactttt aattctacga aattctattt 180  
 ttttattaga aaacagtacc aaaagtactt aaggaaatgc atgtaagtta tgtcttttat 240  
 gaattttgat taaaaactct ctttatttca aagacattcc ttatttacca attaattata 300  
 tgacatccct agttgccatg gccaatatgt cagcacttga aaccttattc tggcagcgag 360  
 gtacactgtc aaccgcagca ttggctttga tcacagtgtc aaacccatca ccagctagca 420  
 ccacagaagc a 481

<210> 10148  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<400> 10148  
 agcttataga atatataata aatttctttg acttttgaaa agtctataca tgtttccttt 60  
 gatgagtcta atgtcattct ttcaaggaag gatttttttag ataataattc aaattcctta 120  
 gaagatacac atattttatgg aaatgactct aaagaaaaag atgaaggaag caatgaggat 180  
 tctcaagata atggggctag aggaaataat gaacttccaa gagaatggaa agcctcaaga 240  
 gatcatcccc tcgacaacat tattgggtgat atatcaaaag gggtaacaac tagacattct 300  
 cttaaagatt tatgcaataa tatgactttt gtatctatga ttgaacctaa aaatataaaa 360  
 gaagccatag tagatgataa ctggataatt gccatgcaag aagaactgaa tcaatttgaa 420  
 agaaataatg tgtggaaact 440

<210> 10149  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10149

actcagctng acaaccggct tgtttaagta ataataataa taatatatta ctattatcta 60  
 taccattntt atgacattat gaatgacttc atgaattgag ataaagtgtc taaagaattc 120



acttgcattgt gaaaaatttt caaaaagaaa aagactcaag ttaaaaggat aatgcaacca 180  
gattaatact ttcaaagaaa aaaatgtttt gtaaagacat ttccagacaa tttaaatatt 240  
tttatttgac tatattagta taaatcatct ctaatccatg tattttttaa tattatactc 300  
tctttttcat tttcttttga tatactntgt gtttaaataa cttgaattca atatgattnt 360  
ggttatcaat tatntttgaa ttggatatta cttatacgaa aatntataag tttctttttt 420  
aagtagtatt tactaggtnt ataaa 445

<210> 10150  
<211> 427  
<212> DNA  
<213> Glycine max

<400> 10150  
gagcttttca ctcctacatt gagaacaact accttctctt tatagctgct taatttaggg 60  
aagaactcct tcttatcaga aatcagataa ataataatgc tgccatcatc agtattactc 120  
catccaggca taacctcgct tacagaatca ttttaagatg agcaatcaag tgagtccaaa 180  
ctagcaattt ttgaagaac acttgccttg tcatatggaa ggccaacacc ataagaaatt 240  
ccactatgcy ttctggacag gaagagtgtt cggatgagag actcagctac tggccggagt 300  
aaagaaacag ttttatcatc accactttca gccaaagatg ctgattcatc caataacacc 360  
cccctacta taccatctg agagtggatg cagcactacc aaaacagaga atgagacagt 420  
tatcatt 427

<210> 10151  
<211> 444  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10151

catgcaagct aattataact tacttgctgt taatatataa caattatcaa aatttaaata 60  
ttactttaac tatatgcaca aaaaattggt gaacaaaaat cattcaaat tattatatat 120  
gtacttgtea taattgagaa agaattgtaa taaatgcata gaaagaaaaa agagctttta 180  
atctcattta gacatagttt gcaagaaggc ggaaaataaa tgatgcaaac ttaaggatat 240  
tcatcattta gttactggct tttcatgtat aaaatccaac cttggaatag aatatcatc 300

attacacgca taggaattta attaatacag cacaaaatgt acataacaac aaaagaaatt 360  
gacatgctaa caagaaaact atgatnatat tgggtggcaac agtatataag tatgacatac 420  
tacatataag accttctatt ttat 444

<210> 10152  
<211> 379  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10152

agctttgaaa aacactttnt attttaaato acttggccaa acctttgcta attcaattag 60  
gaattccctt cctaataatc tagtgatcat cttgatgttg tgacttgtaa tcttgaagta 120  
ttgtcttgaa ttttaattctt gaaaagecca tttgcatcaa ttgcaacaca tcatcatgat 180  
catcatcaaa acatcaaagc caattgcac tacacatgtg tctccacct tcgagattgg 240  
agctatgttt cagcattgcc taagtgcgga cctcaaggc aatccgccat tctccctttt 300  
ttttcggag acccatgaat gttattgcct agcgctatc atgtgcctc caccttcgag 360  
gttggagcta tgtttcatg 379

<210> 10153  
<211> 385  
<212> DNA  
<213> Glycine max

<400> 10153

gcttcatggc ttactgagga tggagaagtg caagtattga attctgtgga gttggatatt 60  
tccattagaa agtataatga taagggtgtt tatgatgttg ttcctatgga ggccagccac 120  
ttactcttga ggggaccatg gcaatttgat aagaggggta atcatgatgg tttcaccaac 180  
aagatctctt tcacgtatca aggcaaaaag atagtgtc aaccattgag tccacaagaa 240  
gtatgtaagg ataaaaaaaa atgagagaaa attcttcaag aaaagagaga aaaataaaaa 300  
gagagtcaaa cacttgagat ttaaaaagtg aagacaaaa gagggaaaca caagagagag 360  
aaaagatgag tgaaacactt tgagt 385

<210> 10154

<211> 442  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10154

ntntattgta atcttgaaat tcaggacaac actctgattt ctgaaatttt tgggataaaa 60  
 atggtcattg atcattccct tctctctgac taaaccaa at taccacagtga cgggtgtacca 120  
 tttgaaggta cactgaatga cgactggaaa ttgattttct ctgcccatga tgcccgccag 180  
 ttggttttga ccaacaatgt ggatatgacc ggacgtcttc ttgccgggtc attggctttt 240  
 gaaagccgca tccttcacta tttaattgtg cgtatttttc ttccacggtc ttccaacctt 300  
 gccaggttt ctgaggaaga tctaattatc atgtgggcct ttcatacagg gagtcaactt 360  
 gactgggcac acttagtcaa atategcatg catatggcat tgccaataaa tgcttcatta 420  
 ccatatccac agcttgcac tc 442

<210> 10155  
 <211> 206  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10155

tatgcagtgc actttctgag tatggtgttc ttggatttga attgcgtac tccatggcca 60  
 atcccagttc atcgatgatg tgcgaggctc agctaggtga ttntgcta at ggtgctcatg 120  
 gcatatttga caatttcttg gcttctggtg aggctaagtg gctccgtcac actgggcgtg 180  
 atgtgttact tctcatgtg tatgat 206

<210> 10156  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<400> 10156

atgaaaggaa aagactcttg cagttggttg gaacatatat cgacaagttt attgtttgtc 60  
 aaacgaacaa gagtattact ttcttgtaaa tgtgtgagaa aatttttggg aagattcaaa 120  
 tgagcaagat atccaagttg cgaaatccag ttaggtattg gtccttcgat cccgttgtca 180

gatagatcaa gatatatata tatggactga tttatcaaga aactaggaat tcgtctcaac 240  
ttacaggaag ccaacattat atgcgtcata tgaggaaagg gtgacaggtc atgatcatcc 300  
ctaaagttta tatcaactga caaattgtta tgtgagaggc ctagtccaat taaattactc 360  
agcttgcgaa tcttgtccaa ttgtattgtg ccattaaact tatttgactt aagctgaatg 420  
acacgaagt 429

<210> 10157  
<211> 440  
<212> DNA  
<213> Glycine max

<400> 10157  
agcttaggac tcaatgaagt ttattctttt tctgattatt atgatagttt atatactggt 60  
tttccctttt ctcatagttt tcacagcagc agaaacttca tccatcacac aatcccagtc 120  
cctcagttac agaaagaccc tagtttcccc aagtggaaac ttcgaactcg gtttcttcaa 180  
tcttggaatc ccgaacaaaa tctaccttgg aatttggtag aagaatatc cacttcaaaa 240  
catagtttgg gttgcaaacg gtggtagtc aatcaaggat tcttcttcca tcttgaaact 300  
agacagttct ggcaatttgg tccttacaca caacaacaca gttgtttgga gcacaagttc 360  
tccagaaaaa gcacagaatc cgggtggcaga gctcttggat tctggcaatc ttgtgataag 420  
agatgagaat ggaggaaatg 440

<210> 10158  
<211> 359  
<212> DNA  
<213> Glycine max

<400> 10158  
gacaagtgga ctcatagatc ttaagaaggg gggggcagaa ttaacatata acaaaactatt 60  
ccccaattaa aaattctact ttaatttaa cccaacaacc caagattcct ttaaaacaag 120  
aactcctaaa taataatgca aattaatctt actaaataaa aataataagc actaaatact 180  
caagaagttt aggggaagag aaaatgcaca ctcatattta tactggttcg gccactccct 240  
tgagcccaaa tccagtcacc aagcaacca cttgagagtt ccaactatctt gcaaaatccc 300  
tttacaagtt ctgaaccaca caatgacgac ccttcctttg tgttcaaatt ttgttacaa 359

<210> 10159  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10159

tagtacttgg aatttggact cactgtcgtt tagcctgttt atgcaaaggc aaanggnatc 60  
 tatcttagga cacaccctat tgagatttgt gtagttgggtg cacattctcc atttaccgtt 120  
 ggcctttttg actatgacaa cattggtgag ccaaggagag taactaactt ctctgataag 180  
 ttgggccttg aggaacttgt ccacctctc cttgactgcc ttgcgatgct cttctactat 240  
 ctatctcttc ttctgtgaca ctggtttggc ctacgggcag atggcatgct tatggcttat 300  
 aatgccaggg tgaatactcg acatgttaga tggctaccat gcacatagga atgcatttct 360  
 gttgtgggaca ttagctatgc gtttatgcct at 392

<210> 10160  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<400> 10160

agctattctt caacaaacaa atcaaaattt attttctgat cttcaaaacc tagctccagc 60  
 ttctcttccc ccatatcaac tatgcagctt gtggtaaca tgaatgggtt tcccaatatt 120  
 acagggatgt cagtatcttc agagatatcc attaccataa agtctgtcgg gaagataaaa 180  
 tgttttactc tgaccaacac atcttcaatt actccatatg gccgggtaat ggagcagtca 240  
 gctaattgtc aagacattcg agtgggcatt atttccaact ctccgaatct tctgcacatg 300  
 gagagtggca tcaaattgat actagctccc aaggcaataa gagcttttcc cacattgact 360  
 ctgtcaattg aacaaggaat agttacactc ctacgaactt tatgcttggg t 411

<210> 10161  
 <211> 250  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10161

tctcaattaa gtaggagtg gagtgacctt angctttggt cnccttctct tcttctcgaa 60  
gctaacacct ctgccttttg cctgaaaatc gcgaacatcg cgaaggtaaa tctcgaccgc 120  
gcgtgcgcgc aatgggtttg tctcggggcg gccgcggttc ttctcgtagg cygcgcgcgaa 180  
gcggtcgatg acggcgctga agctgcccc a ggcttggcgg agcgggcagg gacatggggc 240  
aagtgggttg 250

<210> 10162  
<211> 417  
<212> DNA  
<213> Glycine max

<400> 10162  
gcacctgcag catgcagcta gtgagagatt aacgattttt ttaattttat ggcaagcgca 60  
ctctgatttc actagagcag gctcttttgg tatcaatctt catgcagcta atcgagttgg 120  
tatagttgat gggctcttga atccaacata tgatcttcag gccatctatc gatcatggag 180  
gttagagcct gttactttat cccctaatac aaataagttg ccttctgatt taaaaattat 240  
ctataaaaca taaagtttag aatgcgatgc gactgtctcc ttacggaga attcttcatt 300  
gagcacgata ttagctcatt gcccttttag aggggtttcc cttatttcta acaataagac 360  
gtgatagtgt agaccttcac tccttattac gcgaccgcca cattctcttt attcttg 417

<210> 10163  
<211> 364  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10163

agaaactcag cttaacattc acttcgagcg tacgttatat tatatgactt attagacatc 60  
cgcgtaaaaa gttattggcg nttgagttgg ctgagagctt caacattcaa tttcaagcgt 120  
ctcgatatat gacgggactc aatcagacat ccgagtaaaa agttattgtc atttgaattg 180  
gctgagagct tcaacattca attcgagcg tctcgatatg taacgggact caatcagaca 240  
tccgagtaaa aagatattgt cgtatgaaat tgctcagagc atcaacattc aatttcgagc 300  
atctatatat gtgacgggac tcaatcaggc atccgcgtaa aaagttattg tcatttgatt 360  
ggct 364

<210> 10164  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<400> 10164

tgtgtgcatt caatatcctg atgaggggtgt tccatatgtt tttatgactg gactttacat 60  
 cgttgccca agtttcattg tcttgagggt gaagatcctc ataagcatct taaggagtgc 120  
 catatTTTTT gtccaccat gaagccccct gatgtccaag aaaatcatat ctttctaaag 180  
 gcttttcttc atttctggag ggagtggcaa aagattgggt gtactacctt gctcccagat 240  
 ccatctccag ctgggatgac cttaagagag tgttcttgga gaaattcttc cctgcactca 300  
 ggaccactac catcagaata gacatttcaa gcatcaagca acttaattga gagagcttgt 360  
 atgagtactg gg 372

<210> 10165  
 <211> 350  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10165

ctaagcttac tgcacatana atatataact tgatattagt cttgttttca ttaaaactaa 60  
 aaataaatta agcataatgt ttgaatgtgg ctcaaatcaa gatcggctaa cactttacta 120  
 taactgaaat gtgaaagaca ccgtacccta ccaaaaacga agacacgtta taaacataga 180  
 ccttttcaag gaatacatTT tcaattgaag cacttggtcat ccaaaagagc ctcgccctca 240  
 aaacgatcat aatcttcaat catctgattg acacgtcctt tttagacttc atcatagatg 300  
 tcaaccttag tccattcgga tagctccatg tcatagcatt catcaactac 350

<210> 10166  
 <211> 350  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10166

cacgaaattn tatgcctcaa gtgaggtcta aaatctgaag tgtggttctc aaatgatcaa 60

agttgaatga caagctcaca catgacctct atttatagcc tcagggtgac aaaaaataag 120  
 aggggaattt gaatttctat tctaatttca cttgaatttg aatttaaata ggtggagcca 180  
 aatttgagc cacaatttca ctacttatga ttagtgaatt ttagctatga ttcaaccac 240  
 taattccaga tcaagtccaa gattcttcac taagtgtgct tatgtgtcat gaggcattg 300  
 aaacatgaca gatatgcaca aagtgtgact atatgatgtt gtaatgggga 350

<210> 10167  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10167

cttgatgaan agttggctca ctcgttgttt tctatagcaa tatgtagaat ctcaaattta 60  
 aagaaagcct ttttgagttg agtagccata tggtagtacc ttgtcatctg tggatccttg 120  
 atatgatatt ctccattcaa cttaccagtg ataagcttgg agtcgctcca acactttaga 180  
 tatttagctc ctacttcttt agctaatttc aggccagcta agagagcttt gtgctcggt 240  
 tggttattct tggtttcaaa ctccaacctt agggactgct ctaggattac ttcattcggg 300  
 ttttttgaga taaccgtagc tcaactccct ttttcattgg atgaactatc tacttacaac 360  
 ttccaccact c 371

<210> 10168  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10168

tcagcattca attntcagcg tctcgatata ttactgtact ctatcagaca tgagagtaaa 60  
 nagttattgt cgtttgaatt tgcaacgacc atcaacattc aatttttagc gtgttgatat 120  
 attacgcgac tcaatcagac atccgagtaa aaagtatttg tgatttgaat tggtcgagag 180  
 ctccaacatt caatttcgag tgtttcgata tattctggga ctcaatcgga catccaagta 240  
 aatagttatt gttgtttgaa tttgcttaga gctttggtat tcaattntga acgtctcgat 300  
 atattacggg actcaatcaa acatccgagt taaaagttat tgctgcttga atttgctcag 360



agcatcaaca ttcaatttcg agcgtgtcga tatattacg

399

<210> 10169  
<211> 435  
<212> DNA  
<213> Glycine max

<400> 10169

ajctttctgtt ataattgcga gcgtctctat atattactgg cctcaatccg acatcggagt 60  
taaaagttat tgtcgcctaga atttgctcac agctttctgtt ctgaattttg agagtctcga 120  
tatactacgg aacacaatcg gacatttcag taaaaagtta ttgtcgattg aatttgctca 180  
gagctttctgt tcttaattac gagagtctcg atatattacg ggattcattc ggacatccaa 240  
gtgaaaagat attgccgttt gaatttgctc aaagcattcg ttggcaatta cgagcgtcta 300  
gatatattac gggattcatt cggacatccg agtaaaaagg tattgtcttt ttattgtgct 360  
cagagcttct gttttcaatt tcgagcatct agatatatta caggactcaa tcggacattc 420  
gagtcaaaag ttatt 435

<210> 10170  
<211> 380  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10170

agcttactaa ggcacctgtt ctttctcttt ctgacttttc taaaactttt gagctagaat 60  
gtgatgcctc tggagtggga gttggagctg tattgttaca aggagggcac cctattgctt 120  
attttagtga aaaacttcat agtgccaccc tcaactaccc cacctatgat aaagagcttt 180  
atgccttaat aagagccctc caaacttggg aacattacct tgtttccaag gaatttgctc 240  
ttcatagtga tcatcaatca cttaagtaca ttagagggca aagaaaagtt aacaagaggc 300  
atgcaaaatg ggtagagtac cttagagcaat tttcatatgt tatcaaatac acanagggaa 360  
aaacaaatgt ggtagctgat 380

<210> 10171  
<211> 433  
<212> DNA

<213> Glycine max

<400> 10171

agcttattgt cgagtttgag acatatacgt ataataaaaa ctctgcttca ggggttgacc 60  
gagtgggaat tgggtggagt gcaagaaatg tcttgaactt aaaaaacatc ttttcacatt 120  
gtccactcga ttgaaaatgt tttcgtttct tcagtacttg aagaaaagct ttgctttttc 180  
tgccattttt ggtaaaaaaa aaatgggata aggatgctaa catgcctgtt aactttttgca 240  
cctccttcaa attgtgtgga ctctcatggt caactacgac ctccacttca tctgggttag 300  
cttcaatacc tctataggcg atcttgaaac ctaatatatt cctctctcct tactccaaaa 360  
gtgcattttt ctgggttgag tgcgatgttg tgcttctca gctatgcaaa aatagctaaa 420  
tcttttggat aat 433

<210> 10172

<211> 431

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10172

agcttcagca ccgaaattta gttaggctac ttggttttctg cttggaagga aatgaaaggc 60  
ttcttgtcta tgaatatgtt cctaataaaa gccttgatta tttcatattt ggtacgtctc 120  
tgaatcactg catagttaga ctgcttctct atatttctact agtggttcaa gacaaagcct 180  
aactattcac acaaaattaa aactgatgga tgtatatgca gatccaaaca tgaaggcaca 240  
attggatttg gaaagtcgtt acaaaatcat tcgagggtata actcgaggcc ttctatacct 300  
tcatgaagac tctcgagtgc gtgttataca tcgtgatctc aaagcaagca acattctctt 360  
agatgaagag atgaatccga agatagcaga ttntggcatg gcaagactgt ttttggtgga 420  
tcanactcat g 431

<210> 10173

<211> 363

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10173

ttgaatgcac tattcaatgg agttgacaag aacatcttca gactgatcaa cacttgcaca 60  
 gtggccaaag atgcatggga gatcctgaag atcactcatg aaggaaacctc cacagtgaag 120  
 atgtccagat tgcaactctt ggctacaaaa ttcgaatata tgaagatgaa ggaggaagag 180  
 tgtattcatg acttccacat gaacattctt gaaattgcc aatgcttgac tgccttgnga 240  
 gagaggataa cagatgaaaa gctggtgaga aagatcctca gatccttgcc taagagattn 300  
 gacatganag tcaactgcaat agacgaggcc caagacactt gcaacatgag agttgatgaa 360  
 etc 363

<210> 10174  
 <211> 259  
 <212> DNA  
 <213> Glycine max

<400> 10174  
 atgatttctt ttgttccgga aacctttctt ttctcatgtg caccctaaacc caatctccgg 60  
 gttcgaagac aacctttctt ctccctttgt tggcttgtgt agcatagctt ttatatcttc 120  
 tetcaattag atctttgact ctctcatgaa acttcttcac atagtcgcc tctgcttgac 180  
 cttcttaatg cgtacaaaaa gaaacatttt gcatatgcaa aagatcaaaa cgagtttagt 240  
 tgctaaaacc ataaacaac 259

<210> 10175  
 <211> 339  
 <212> DNA  
 <213> Glycine max

<400> 10175  
 tgaaacctca attcctctaa tatatgaagt tggagcttcc tgtgttcacc agctgcattt 60  
 agatcaaaa tcaaaaactt caatgcttaa taagctttgt gtttcaactc aacaggtaag 120  
 tgacaagatt tgccatagac caattagaag ggagttcttc ttataagagc tctgtatggt 180  
 gttctatatg cccacagagc ttcctctaat atttgagacc aatccttctt taaatgagca 240  
 actgttttct ttaggatctt cttgacttca ttgttagaaa ttccagcttg ccattgggtc 300  
 tgtggatggt aaggtagagg taccttgtgt ctaacacta 339

<210> 10176

<211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10176

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agcttgtaa gcaagtcttc tctatttgt ttantatata tgcattcgaa cgatataaaa 60
aaaagcaact gagggaaaaa gcttctctcc tcacatattc aaaacttcaa gtattctggt 120
tgtaaatatt tttaaaataa taggttacct acataagtat tgtaagttta ggtaattaa 180
gattaatacg cattgtaagg ttaggttagt tattattatt aataaattaa taagtatgct 240
gttatttgtt attaatTTTT atgtactaac agatatttga agagtagggt aggttagggt 300
acttagtata aaaatattat ttagtttga gtatattcatt ttagatttgt agtatattat 360
tgaagggtta gttgtataac aataagtatg ttgttattag ttgtagtat atat 414
```

<210> 10177  
 <211> 316  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10177

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taccaccata ggaagccatg gataagagct tgaatgtagg agaagatgag tggagggaga 60
gggagagaaan gagcacgaaa ttttgtgcct caaatgaggt ctgaactttg aagtgttaatt 120
ctcaaatgat caaagttcca aaaaaatgca cacacatgac ctctattttag agcctaagtg 180
taaccnctg aatatattatt agtaattata tttgatgttn gattatattt gttgggtatt 240
tgtgtgctat tacacttact cactattgtg ttctatagct ataaagtttg attgtgaatc 300
atattgaatt gttttc 316
```

<210> 10178  
 <211> 366  
 <212> DNA  
 <213> Glycine max

<400> 10178

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gagatcgccc ccttgacaac attatcggtg ttatctcaaa aggtgtaaca actagacatg 60
ctcttaaaga tttatgcaat aatatgactt tcgcgtctat gactgagcct ataaatttat 120
```

gatgaagcca tgatagatga tcattggata gttgctatgc aagacgaact aaatcagttt 180  
gagagaaaca atgtgcggga actagctgag acacctgaaa actaccccat cataagaaca 240  
aaatgggtat ctaggaataa gttagatgaa catggcatac tcattaggaa caaggcatga 300  
ttacttgcta aaggatataa tccagaagag ggaatcgatt actaataaac atatgctcca 360  
gttgca 366

<210> 10179  
<211> 168  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10179

agctgatgac catttttatg tctcgagagt ttntgctgtt caatttcgag cgtctagatg 60  
agatatgtac ccgaatcgga catctgagtg aaaagctatg accattcgaa ttgacctaga 120  
gctttcgttg ttcaatttca agagtctcga tatattatgt gcccaaat 168

<210> 10180  
<211> 425  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10180

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tattttactt tctattcaag ttataaatc ccttaaaaat gaacttctta aatattgatt 180  
caaatagagc aatttgaata tgaatataaa acaataataa ataaaggagt ttaaggaag 240  
agagattgca aactcagatt tatactggtt cggtcacacc cttgtgcta cgtccagtcc 300  
ccaagcaacc cgcttgagag ttccactatc ttgtaaaagc ctattacaag atctgaacca 360  
caagaggaca acccttctct tgtgttagat ttctttacaa caagagaccc tcggtctctt 420  
aatcc 425

<210> 10181  
<211> 434  
<212> DNA

<213> Glycine max

<400> 10181

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gtggcgtctc ctctctctct tccttctcca ttcgctgcc attcatcttc caagaagcaa 120  
aggaatccat tgatgaagaa gatcttaggc ctacaagctc caatggagct tacatcagcc 180  
tctgactctg gcttgctttg gtgaagggcc ctacagagctg tataagtttg catagaactc 240  
tttcacccaa gccaaatcta tgctcccatc aaccaaattg gtgaggcggt tatggaaatt 300  
acacctctcc aacttagtct taaaatcatc caactcgggt tggtagagct ccaccttctc 360  
ctctgacaag atgtttctcg ccaggacatt atccatgtac tggttccaag catctaagga 420  
gtgaaatctc cttt 434

<210> 10182

<211> 280

<212> DNA

<213> Glycine max

<400> 10182

ggcatttttg gacaaagtat gacaagcagg gggcatgcaa attctcttcc catcaaacct 60  
tggatgcaac tgagatcgta tccccatctc agctagatct tgacgggtat tcaagccatc 120  
cttcatcttg ccttgaatgt taaggagcat cctaatacaca ttgtcacata catttttctc 180  
cacatgcata acatcaagac aatgtctaac gtctagatca gaccagtacg aaagatcaaa 240  
gaaaatggaa ctcttcttcc atatgcaagt cttactttta 280

<210> 10183

<211> 438

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10183

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aagagaacca ttgaagtgtg ttgcgatgcy agcgggcaag tcttaagggtg tgtattgatg 120  
caagagggaa gggtagtgcc ttatgcttca cgtcaattgc gtctcatga agttaactat 180  
ccgacctatg atttggaact agcagcttga tggaagcttg cttgtggggc ttctatgaag 240

gctggatctt tgagcttcta tgaggctctt taatggtgat ttccaccat ggagatgcag 300  
 cggaagacaa atgagaatag gtgagaggag gcgccatcca ctatggaata agccttggaa 360  
 gaaggagcat caccaccaag atgagccttg gataaaaagc ttggagagga tgcttcaatg 420  
 gaagaaaaga aagaggga 438

<210> 10184  
 <211> 351  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10184

ttgttgaaa ctaaattgga aaacaaaaaa ttctggcaga caaaaatgga tggaaaaatt 60  
 tctccttata ccttatttta ttttatattg ttaattaatt ataatttata ttgttaatta 120  
 taatgaagat caaactttnt atattatttt aatttatgat aaataaaaat tcttttcaca 180  
 tcatttaagt tcattatatt ttataatag taaataaaga tcatactttt taaattatta 240  
 taattataat tactatgacc taagtatcta caaaatcgta tgcttatttt tagaatngac 300  
 catatttact atttgtacca aatattaaag atgcattatt atttttgaat t 351

<210> 10185  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<400> 10185

gatgccttta aagtttttaa ggctgaagtt gagaacaat gtggtaaaca aattaagatc 60  
 gtgagatcag atagagggtg ggagtactat ggtagatata cagaggatgg acaaccccca 120  
 ggtcaatttg cgaaattttt tcagaacctt ggaatggtg ccacatcccc tatgcttggt 180  
 tctccggatc agaatggggt ggcagaacga agaaatcgaa ccttattaaa catggtgaga 240  
 agcatgagga gtaatgtaaa gctccctcaa tttttgtgga ttgatgctct taagacggct 300  
 gcgtatatat taaaccgagt tccaaccaag gctgtctcaa agacaccttt tgaattattc 360  
 aagggttgga aaccaagttt gcgacatata cgcggt 396

<210> 10186

<211> 395  
 <212> DNA  
 <213> Glycine max

<400> 10186

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ctatcaggac ctataaaact cagcttggtg agagattaat gagcctttta ataagagggt 60
taagtgcact ctgatttcaa ctagagcagg ctctttgggt attaattctt atgcagctaa 120
tcgtgttggt atagttgatg gttcttgga tccaacatat gatctccagg ccattctatcg 130
atcatggagg taagatcctg ttaatttttc ccttaatcaa gataagtttt cttctgatta 240
aaaaattatt tataaaatat aaagtttaga atttgatgtg actgtctcct ttacggagaa 300
ttctttcagt gaggcagtat ttagctcatt ggtcttttag aggggtttcc cttatatcta 360
acaataagat gtgaaattga gacttacact cttat 395
```

<210> 10187  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10187

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agcttcccaa tcaattctcg atatctntta tgaacagaat aaggctcccc ctgattgggt 60
agcaattntt tatttggatc catgggacta tcaattgggt tacaatctga cataacagtt 120
tctttaagta tgtctaagtc atacttcttt tgtgagatga taatccatt ttttgactga 130
gcaacttcaa ttccaataaa atatttaagt ttccccaaat ccttaatcta aaaatgacta 240
aataaatggt ccttcggtg agcaattttt tcttgggtcat ttcttatgat gactatatca 300
tctactcgat gaggtatgac aataaaaaac tgaatgggtc gcttcacttt gtttcattccc 360
aaaagcctga acatctgagc tgaattt 387
```

<210> 10188  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<400> 10188

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agctttctcat caatacttga aagaaaacat tataaaaagg taaaatgaat caaaattccc 60
caaaaactag cttatgcaat tcaactattt tagaagttcc ctggtttaac tcttccaaaa 120
```



actgaagtgt ataagctaata ttttaactggt aggaaaaagtt ttattcactt tacctattca 180  
 tttttcttcta taaaatgctt cttgaatttt atttccaaac tgaacctaaa ttgtatatatt 240  
 tattaccttt ccgggtccga gttcatagct tttcttcaga cccttggtta gaagagtctg 300  
 cactgttgtt tccattgaa cagggtgaggt aacctgccaa atgcataaca ggtgcaatta 360  
 tttcccatc atgtcttctt gttagattga aacaagtatc agtaacatac ctggcatgcc 420  
 aatat 425

<210> 10189  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<400> 10189  
 agcttcaaca ttgaatttag agcgtctcgt tatattacct gacttattca gacatacaag 60  
 taaaaagtta ttatcgtttg aaaatcctca gagcttcggt attcaatttc gagcgtctcg 120  
 atatattacg ggactcaatc agacatccgt gtaaaaagtt attgtcgttt gaattagctc 180  
 tgaggttcag aattcaattt cgagcgtctc aatagattac gggactcaat cagacatccg 240  
 agcaaaaagt tattgtcgtt tgaattagct cagagcttca gaattcaatt tcgatcgtct 300  
 caatatatta caggactcaa tcagacatct gagtaaaaac gttattatcg ttagaatttg 360  
 gtcagagctt caacattcaa tttcgagcgt gtcgatgtat tacgggactt aatcag 416

<210> 10190  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10190

tttactcgag gaggtgctct aggccaggtt aatatagcct attctggtgt ttatcagtgg 60  
 tggatatcaa tcggtttacg tactaatggg gatctttata ctggagctct ttttctatta 120  
 tttctttcta ctatatcttt aatagcgggt tggttacact tgcaaccaa atggaaacca 180  
 agcgtttcgt ggtttaaaaa tgccgaatcc cgcctcaatc atcattngtc aggattatc 240  
 ggagtcagtt ccttggtctg gacaaggcat ttagtccatg tcgctattcc gggatccagg 300

ggggaatacg ttcgatggaa ataattaatt agtatattgc ctcaccccca aagatagggc 360  
catttttcac 370

<210> 10191  
<211> 430  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10191

agcttatgct gcaaatatatt acaatagacc ttctcaacct cagcagcaaa atcaaccaca 60  
gcagaaaaat tatgacctct ccagcaacag atacaaccct ggatggagga atcacccctaa 120  
cctcagatgg tccagccctc agcaacaaca acagcagcct gctccttctc tccaaaatgc 180  
tgctggccca agcagaccat acattcctcc accaatccaa caacagcaac aacccagaa 240  
acaaccaaca gttgaggccc ctccacaacc ttccttgaa gaacttgtga ggcaaatgac 300  
tatgcagaac atgcagtttc agcaagagac cagagcctcc attcagagct taaccaatca 360  
gatgggacaa ttggctaccc aatngaataca acaacagtc cagaattctg acaagctgcc 420  
ttctcaagct 430

<210> 10192  
<211> 419  
<212> DNA  
<213> Glycine max

<400> 10192

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ctatacgaga catcttgcca aacaaagtca ggtagcgat aactcacctg tgctttttct 120  
tccatgctat atgtagcaaa gtcattgac ctgtcaagtt tgatgagttg gaaaatgagg 180  
ccgcaattat actatgccag ttggagatgt attttccccc tgctttcttt gacatcatga 240  
ttcacttgat tgtgcactgt gtcagagaaa tcaaatgttg tggctcctgt tatctatggt 300  
ggatgtaccc gattgagcga taaattgcaa aagaagccat tgaatttttt tcagaatact 360  
tagagaatgc taaacctggt ggccttcctg agtctcggca tgatgacaaa gtgggggggt 419

<210> 10193  
<211> 306

<212> DNA  
<213> Glycine max

<400> 10193

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tcgggttttca atttcgatca tctcgataca ttatgttccc aaatcaaaca tccgtgagaa 60
aagttagtac cattcgaatt tctcgacagc ttccattgtt caatttcgag cgtctagata 120
tattatgtcc caaaatcgga catcggtgtg aaatgttatg accattcgaa tttctcgaga 180
gcttctgttg ttcaatttcg agcggttcga tatattatgt ccccaaatcg gaatttcgtg 240
cacaaagttc tgaccattca aatttctcta gagcttgccg tgttcaattt ccagcgtctc 300
gatata 306
```

<210> 10194  
<211> 355  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10194

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gctcaaaaaga aaactcgga annatcaaac caccagttta ttaaacaatg ggagtnagca 120
aagatataaa gtatcaagag tattaataa caaataagcc aaaactcata atcaataaaa 180
ataatcaacc agaagtcaaa taacataaaa tgtcaacaac cacaaaaatat ccaagactga 240
aacacaagaa aaataagcaa agtacttagc ataataatgt agattctaag aaactaaaag 300
ccaaaataca cggcttataa aagataaata agcagaatct aaaatctaag aagac 355
```

<210> 10195  
<211> 360  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10195

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ctaattttca acttacctat ttggatgtga catcatggca gataggtccc aactttccat 120
cgtggattca atcacaaaa aaacttcaat atattggact gtctaacacg gngattttag 180
attctattcc cacttggttc tgggaaccac actctcaggt tttgcattta aacctctctc 240
```

ataatcatat ccatgggtgag cttgtgacta cattacaaaa tccaatatct atccaaaactg 300  
 ttgatctaag cacaaatcac ttatgtggtgta aattacccta tctttcanat gatgtgtatg 360

<210> 10196  
 <211> 301  
 <212> DNA  
 <213> Glycine max

<400> 10196

atggaggctc tgggtctcttg ttgaaactgc atgttctgca tagtcatttg cctcaaaagt 60  
 tcttcgaggg aaagtgtgtg aggggtetca actgtcggct gtttctacgg cttgcgctgt 120  
 tgttggtattg gtggaagaat gtattgtctg cttgggcca catcattttg gatagaacga 180  
 acacgtctgt gttgttgttg ctgagggtca gaccatctga gattacggtg actcctccat 240  
 ccatgggtgt atctgctgct ggagagggtca taactgttct gttgcggctg attatgctgc 300  
 t 301

<210> 10197  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<400> 10197

agcttataat atattatata ctcgaaatta aacatcagaa gctctcgaga aattcaaatg 60  
 gtcataactt ttcacccgga tgtccgatta tggcgaatca catatcgaga cgctcaaaat 120  
 tgaacaacgg aagctcttga gaaattctaa tggtcataac ttttaactcg gatgtccgac 180  
 tcaggcgcat cacatataga ggcgctcgaa aaggaacaac ggaagctctc gagaaattca 240  
 gatggtcata actttccaca ctgagggtcg attcaggatt ataatatatc aagacgctcg 300  
 aaattaaaca tcgaaagctc tcaagaaatt caattgggtca tcacttttca cacggatgtg 360  
 cgattcgggc gcataatatg tcga 384

<210> 10198  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 10198  
 agcnttagaa aaaaatgtta actaaaatat tattgcctag tttcactcac caattatgta 60  
 atagccctga tgctcatgca gatcctttaa aaaccaaatt accgttggat ccgttcttca 120  
 cttataatnt atgntaatnt atgaaatctt ggaggtgaga tgtatgattg aattttataa 180  
 gagtataata aatgaacaca ttattaacca ttttttagact attataatta aaataatggt 240  
 tccagtataa aaaaatatnt ctggctacct tactgcagaa gattgttact gctaaatgga 300  
 agactgctac agcagaagag aagaagcctt atgaggggat ataccatgcy gngaaagaag 360  
 cttatttgca ggtgattgca aaggaaaaac gtgaaactga ctcaatg 407

<210> 10199  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<400> 10199  
 gcttgatata tgctgaggtt gctccttate ttcaaaacaa ggtggttget tcaattatac 60  
 ttcttcatta atgaatccat tcaaaaaagc actcttgaca tccatctggt atatcttgat 120  
 atcttttgtt gtagcatagg ccagaagtat tctaattggc tttagtcttg ctactgatgc 180  
 aaaagttttt cattgtcgat cccctcatgt tgattatata cttgagccac tagtctttcc 240  
 ttgttactaa ctactttata ttcatggaga tttctcttaa agaccattt ggttctgcca 300  
 taccctaatt ctgttcgggg accatcgttt gatggcatgc aacctttgct tgaccgcttc 360  
 gaggtatctg gcacccatct gtgcacaata cataaagttc cataacgtgc 410

<210> 10200  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10200  
 ctaagcttct atgaagggtc gttcctaatt tctctacaat tgcacacct ctcaataagc 60  
 tagtgaagaa gaatgtggca ttacctgng gtgaaaaaca agagcaagcc ttgcttttgc 120  
 tcaaagaaaa gcttactaag gcacctgctc tagctcttcc tgacttttct aaaacttttg 180  
 agctagaatg tgatgcctct agagtgggag ttggagctgt attgttacia ggtgggcacc 240

ctattgctta ttttaaatgaa aaacttcata gtgccacct caactacccc acctatgata 300  
aagagcttta cgccttaata agagccctcc aaactttgga ccattacett gtttcccagg 360  
aatttgcat tcatagtcat catc 384

<210> 10201  
<211> 435  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10201

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acttcttcat taatgaatcc attcaaaaaa gcactcttga catccatctg gtatatcttg 120  
atatctttgn gtggaacata agccaaaagt attctaattg cctttaatct tgcactatgat 180  
gcaaagggtt ttcattgtcg atcccttcat ggtgattata tccttgaacc cactagtctt 240  
tcctgttttc taactacttt atcttcattg agatttctct taaagacca tttggttctg 300  
ccatacccta attttggtcg gggaccattg tttgatggca tgcaaccttt gcttgaccgc 360  
ttcgaggat ttggcaccca ttgttgaca atacataaag ttccataacg tgccagaagt 420  
caaaagagag cattg 435

<210> 10202  
<211> 403  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10202

ntatactagg atgtttgatt gagtcccgta atatattgag acgctctaaa ttgaatgttg 60  
aagctttgag caaattcaaa cgacaacaac tttttactcg gatgtctgat tgagtcctcg 120  
aatatatga gagctcgaa attgaatgtt gaacctctga gccaatcaa acgacaatca 180  
ctttttactc ggatgtctga ttgagtcctg caatatattg agacgtata aattgaatgt 240  
tgaagctttg agcaaattca aacaacaata actttttact cagatgtctg attgcgtccc 300  
gtaatatatc gagacgtctg aaattgaatg ttgaagctct gagccaattc acacgacaaa 360  
taacttttac tcggatgaat gattgagtc ccgaatataa caa 403

<210> 10203  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<400> 10203

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agcttcaaca ttcaacttcg agcgtctcgt tatattacag gattctatta gacatccgag 60
taaaaagtta ttgtgttttg aatttgctca aagcttcaac attcaatttc gagcgtcttc 120
atatattacg ggactcaatc agacatccga gtaaaaagtt attgtcgttt gaatttgctc 180
aaagcttcaa cattcaaatt cgagcgtctc gttatattat aggactcagt cagacatccg 240
agtaaaaagt tattgacgtt tgaatttget cagagcttca acattcaatt tcgagcgtgt 300
cgctatatta cgggactata tcagacatcc gagtaaaaag ttattgtccg ttgaatatgc 360
tcagagcttc aacattcaat ttcgagcgtc ttcatatatt acgggactca atcagacatc 420
cgagt 425
```

<210> 10204  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10204

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agctttaaact attaattctt taacagatat acttcatgtg tggtgtgat cgttccgagt 60
ggtgaaatta cggttntgtc cttttccttt tctgatgcag gtacttcttg aacgtgattn 120
tcaacattct taacaagaag atctacaatt acttccccta tccatagtaa gttatagcga 180
ttatgcgtat ttcaacttt gtgtggtgtt agctcatgaa tatcatgtct tgatgttaat 240
tgagattgga tccgtgaaat gttatgcgca gacatgtgtc tctgtccttt gttaacgtcg 300
gatggtaagt gaataaggtt tttttttatt ttttattctg aattgtgaat aagggttaatt 360
aaaggaaata tctcgattcg cgtttctgga ttatta 396
```

<210> 10205  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<400> 10205

acacttaaac tcaagcttga gcattcaatg gcataatgca ctctttgtcc gattcatgca 60

cataatttat cgagacgctc taaattgaac aacggaagct ctcagaaaat ttaaattgctc 120

ataactttta actcggaggt ccgattcaag cggataatat atcgagacgc tccaaattga 180

acaatggaag ctgttgagca attcaaatgg tcataaatag tcaactcggag gtccgattca 240

ggcacataat atatcgagac gctcgaaatt gaacaacgga agctctcaag aaattcaaat 300

ggtcataact tttaactcgg aggtccgatt cacgcacata atatatcgag acgatcgaaa 360

ttgaacaacc gaaactctta agcaattcaa aagggcataa 400

<210> 10206

<211> 394

<212> DNA

<213> Glycine max

<400> 10206

cgctttaatt gaagtgaaac actttagtta acgaggttct ctttcttggt tatagctacc 60

gtgaattttt attctgacaa caacaactaa aactaatcgg ccatgcatgg ggtagaaaga 120

acgaagctct tgaaatttat actaatttgg cccaagtacg aaataataat aagaagataa 180

aaacacttac cggaaaaagt aaatctaattg attccctggc tgcattgtcga acggctctag 240

tgggatacat tggaccacca ggagaagtaa agctatacaa acaagtttct aatctcgtac 300

tagtagtcat tctcaattcc aagcctgtgc cgttaacata aacacaagaa tggcatagtt 360

aagtcattgag atattaatag tccctgtcca aata 394

<210> 10207

<211> 336

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10207

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tgatgactca acaaatcaat ccttaaaggt atccaattaa tccagtaaag cttcattgca 120

gattccatat gcattctgtg ggtgcaaatt tacagtaatt aagtgttttc aaacatgcaa 180

gaatgtgtcc aatggagtg tcaaagatgg atacaaaaag gcgtgaatgt caaatatgaa 240



acaaggacaa atcgcaatgg ttacaaggca agtgccatga aggacggttt ggagaatgaa 300  
tatngtcatg attgcgagaa tgtaacaata tttgat 336

<210> 10208  
<211> 256  
<212> DNA  
<213> Glycine max

<400> 10208  
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tatcaagacg ctcggaatta ataaacaaag gttctaaaga aattaaaacg gtcataacat 120  
tgcagttgga tgtccgattc atgcacataa tatattgaga cgctcaatac tgaacattaa 180  
agctctagtc caattagacg gtcataactt tttgacatgg gagtgcgatt gaggcacatg 240  
atatatacag acgctc 256

<210> 10209  
<211> 394  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10209  
tacattatgt gcctgatctt ttttcttca tttgatgata aaggaacaat taatgtgtta 60  
tcattggcaag gtcccatctg ctgctctctc taaaaagtgt tcacaggaga tgcttaatta 120  
taataatggt caatgggtat taataatctc taataaatac tgataaaaaa agtatctaatt 180  
aaatctttta atatattaaa agataaacia caaatcttat attttaataa atacattcta 240  
ttaatgtatt tgggtttgta actaacactc taaagaaaat ggtcataata ctctcttgaa 300  
aaanatatat ttatgtttat tggaattaat atatatcaac tcattgtattt ttctattagt 360  
agtataaagt gaaacacata agagttaaac atac 394

<210> 10210  
<211> 308  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10210

ttatcaaatg gatgttaaaa gtgattttct aaagggctta attataatga agtatatgnn 60  
 gaacaaccac caggttttga aatattgat aagccaaatc atgtttataa attgaaaaag 100  
 gctttatatg gcttgaaaca agcccttagg gcttggtacg agcgtctaag taagtctctt 180  
 ttagaaaagg acttttctag aggaaaagtg gatactatct tttttataaa gagaaaatca 240  
 catgatattt tactagtcca aatttatgtt gatgacatta tttttggatc cactaacaaa 300  
 ttgttgtg 308

<210> 10211  
 <211> 402  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10211

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 acggcatagc acatgggctc aagatttctc tcacccatcc tttttccatc aagctctccg 120  
 ctttcttttg gatctctttt gtctcttcca aattgcttct atatgctggc ttatttggtg 180  
 aggaagctcc tagaatgaga tcaatttggg gctctatccc tctcaaaaaa tgtaacccat 240  
 gagggttgtc tttaggggaag acatccccaa actccttcaa taatccttcc atacctatag 300  
 gcaaagcaat agaataaaaa caataatcat ggggcattag taaatacata ggtagcctag 360  
 ctagtatcac tctctccacc tctttctctc tcatgaacaa gc 402

<210> 10212  
 <211> 359  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10212

agcttagcta cactttctct tctaatagtt tatttcacct ncttgagatg agaagctaga 60  
 gcttagctac acacccctt ataatagcta agctcaccct catgacaaaa tacatgaaaa 120  
 tacaaaaaa gtcctacta caaagactac tcaaaatgcc tcgaaataca aggctaaaac 180  
 cctatacaac tagaatggc aaaatacaag gcctaaacga aggaaaaaaa acctattcta 240  
 atatttaca agataagcgg gctcatactt agcccatggg ctcaaaatct atcctaaggc 300

tcattgagaac cctagggcct tcccttgat ctctggccca atctacttgg agtcttcta 359

<210> 10213  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<400> 10213

tytaaaattaa attgagtcta atagaaaaaa gaatttcgtt ttataaacta taaataacat 60  
 ttttacctc tcataactga tgaaagattc aagtaaaaaa aatgcttatt gtaaagcatt 120  
 atagttaaat tagaccatg aataatattt aggaaaaatt gcaattgcaa tggcactttt 180  
 aatttataaa aaacattcac ctccctttga atgatttttt taagattatg attttttaaa 240  
 tgacgagtca gtaaaaaata attgtgtatg atttttaaaa aattttaaaa tcaacaaact 300  
 tttattataa ttcgtaattt gatatcattg catatactaa tagacattta ttttttatta 360  
 tgaaaaattt attaaaaaca atcaataaaa ta 392

<210> 10214  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10214

taagtcacct gcggcgtgca gctcaacttt atacccttcc attgttttgt tctacttaca 60  
 tggacttgat ggggcctatg caagttgaaa gccttggagg aaagaggat gcctatgttg 120  
 ttgtggatga tttctccaga tatacctggg tcaactttat cagagagaaa tcagacacct 180  
 ttgaagtatt caaagagttg agtctaacac ttcaaagaga aaaagactgt gtcacaaaga 240  
 gaattaggag tgaccatggc agagagtttg aaaacagcag gtttactgaa ttctgcacat 300  
 ctgaaggcat cactcatgag ttctctgcag gcatcacacc acaacagaat ggcatagtgt 360  
 acaggaaaaa caggactntg cangaagctg ctatgggtcat gcttcatg 408

<210> 10215  
 <211> 470  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 10215

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ctatagattg gacctcccag aagagtatgg agtcagcacc acttttcaca tttctgattt 120  
aattcctttt gcaggtggag ctgatattga ggaggaggaa caaacagatt tgaggatcaaa 180  
tctctttcaa ggggaagggt atgatgctat cctccctagg aagggaccag tcactagagc 240  
catgagcaag aggtcccaag aggctagagt tgctgaataa ggccctaggg ttctcatgaa 300  
tctcaaggta gattttctgag cccatgggcc aaggttgggt ctgttagtgc ttactntac 360  
taagctntaa aagattggct aagaatttgt taaaacataa gcacttanac aatgatggaa 420  
agctggagtt gctgcacatg atgtccaacg ttatgtcaaa gaataagatc 470

<210> 10216  
<211> 416  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10216

tctcgggctc tngcacacct attttaagt ccttcttatg cttttgacct ttctctttag 60  
gggctacatt ttgttcacca acttttttct tgaaacagaa gaacactact aagagacctg 120  
gaagaaacag caatgtgaca cccccaaaa ctattgctat tgttgctccc ttgctcattt 180  
tctgtttga tagatcactt ggtctttgag agactgttgg tggagacaat gtggtcttag 240  
gggaaactga ataacattgt ttcaaagggtg ctccacataa catcaaattc cctctatatg 300  
aggaggcagg aaacttatgg agacctgaag gaatagatcc attcaagtag ttgaagctca 360  
natccaaatc cttaaggcta ggaagggtaa catcaggaat acgtcctgtg agagag 416

<210> 10217  
<211> 324  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10217

ctctcatca aagagnttat catccacatt aaacaattgg cttactagtt gattgaactt 60  
gttgatgtgg ccatggagat ctcttccat ctctattttg agttgataca actccatctt 120

caaacaaagg caattggttaa gcgactttga tgcatagata ttctcgagct tctcccacaa 180  
 agtcttcggg gttgtctect tcaacacatt gtgttgatc tggggagcaa tgactaacgg 240  
 aatcgtgctc acaaccctcc ttggatctt agtcactca gtttcattta tagaagccag 300  
 cctatcatct tctaacgcct gatc 324

<210> 10218  
 <211> 422  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10218

ccttatcttt atcagtaaca agcacatttc cattcacagg tttagcgaca tcaacatcat 60  
 cacttgagcc ctccatttca atgtttccat tatccagtaa tatcatgcct cttttatttg 120  
 gacattgaga agcaatatga ccaactcctt gatacctgaa acatttgata tcatgggac 180  
 tagaagatga attaatctcc attttacctt taggtgcagc aaatgaattt ttggacttag 240  
 cttcatcttt tgactttgtc atagattttt tgttttgcca atttgacttc catgaataag 300  
 tggaatcaaa ttggaagta ctcttagctn tcaattgcct ctccacttga atagatntat 360  
 gcagcaagtc ctctatctcc acataatgat gcaattctac cacattagtt atctctctct 420  
 tt 422

<210> 10219  
 <211> 447  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10219

catgcaagct tccttaagaa gattcctaaa gaagctatat cttagctata cacttctctc 60  
 taatagctaa gctcacctca ttgagatgag aagctagagc ttagctacac accnctata 120  
 ataactaagc tcaccctat ggcaaaatac atgaaaatac aaaaaaaac tctactacaa 180  
 aagactactc aaaatactc gaaatacaag gctaaaacc tatactacta gaatggccaa 240  
 aatacaaggc ccaaacgaag gaaaaccta ttctaattt tacaaagata agcgggctca 300  
 tacttagccc atggggtcaa aatctaccct aagggtcatg agaaccctag ggccttccct 360

tggatctctg gcccaatcta cttggagtct tctatccaat gcccttgagg ntaggaatg 420  
catcactaag tctccagcat tggtttc 447

<210> 10220  
<211> 491  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 10220

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ccttcttctg cctttttccc acaactctca taaatgggag agaaatgttc atctaaagca 120  
tacaagtccc tactattatc aaatccataa atttgagctc ctaggagca aaacaatgtg 180  
tgtctcctag agagggcatc agctaccaca tttgttttct ccttnttgta tttgataaca 240  
tatggaaatt gctctaggtg ctctacccat tttgcatgcc tcttggttaa cttgctttgc 300  
cctctaattg acttaagtga ttgatgatca ctatgaatga caaatctctt ggaaacaagg 360  
taatgttccc aagtttgag ggctcttatt aaggcataaa gctctntatc ataggtggng 420  
tagttgaggg tggcactatc aagtttttca ctanaataag aaataggggtg cccaccttgt 480  
aacaatacag c 491

<210> 10221  
<211> 267  
<212> DNA  
<213> Glycine max  
  
<400> 10221

ctaagttaaa ctgaggttca tctgtagatc cctcatgtaa gactagactc agctcaagta 60  
gcttactaaa gtttagccta atttagccta agcttcgtct gcgatgggtg aatttttacg 120  
aggaggtggc tcgcggtggt ggcggtggac agttctgatg atgaggggtga agaaactgac 180  
gaggaatgca tacacaacga gagtccacg tgtctaaatg aagacctaac gactaacaat 240  
gatgcagccc agatatatgg accttta 267

<210> 10222  
<211> 436  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10222

agcttctntg cacttttttc atttgaattt cttaattagn tntggacatt actttgtttg 60  
acataggaag atgccatgtt tcatttgctt gacttgaagt ccaaggaaga aggacaattc 120  
tcccatcata gacatctcaa attctttntg cataaagttg gaaaattcct tacacaaagc 180  
ttcattaata gcaccaaaga ttatgtcttc aacataaatt tgcacaatca acaactcatt 240  
atttgatctc ttgataaaca atgttttgtc aacttgacct cttacaaaag atttectaatt 300  
taggaaattg ctcaatcttt caaaccaaga tgtaggttct tgttttaaac aataccgagc 360  
cattttcagc ttgtaacatg attagatgtg tgaagctaca aacctagagg tggtacata 420  
tatctttctt catgat 436

<210> 10223

<211> 369

<212> DNA

<213> Glycine max

<400> 10223

tagactaagt tcagcctacc atcctcagac tgattttcta ctgaacagac aattcaatcg 60  
tcggaggacc ttttgagggc atgtgtctta gaacaaaagg ggagttggga gagttatttg 120  
tcgtgatag agttcaccta taaagaccta tatggtataa ggtgtaggac acccctacgc 180  
tagcttgagc ccaaagagaa cctcacctta gtgctgaag tggtagcata aactactgag 240  
aaggttaagt taatccaaga gaggatggtg actgctcaga gtaggcagaa aagctatcag 300  
ggcaagagga ggaaagtctt ggaattcaag gttggtgatc atgtattctt aagagtcact 360  
ctatggact 369

<210> 10224

<211> 380

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10224

gaacttaaat ctgagcttaa cactcgtttg atgggtgcac catcttgctt gttgggtgcg 60





<210> 10227  
 <211> 392  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10227

aactcaagct tcttagtttc agatgatgca gatgggtttg gagctttctc atgcattctc 60  
 tctaagtact atggcatcat ttctggcgct aaactgctgg gagttggagg ccattctctc 120  
 aattaaattt ctggcttcag caggagtcac gtctccaagg gctccaccac tggcagcacc 180  
 tatcatactt ctctccatat tactgagtcc ttcataaaaa tattggagaa gaaactgttc 240  
 tgaaatctga tgggtgggggc aactggcaca tagtttctta aatctctccc agtactcata 300  
 caggctctct ccactgagtt gtctaatacc tgagatatcc ttctgatgg ctgtggctct 360  
 ggaatcangg aaaatttttt ctaagaatac tc 392

<210> 10228  
 <211> 394  
 <212> DNA  
 <213> Glycine max  
  
 <400> 10228

tcaagaaaaa gatggcctca gcaaatctct tattttttta ttggaattct atcaatagac 60  
 ctccaatctt taatggagag ggttaccact actggaaaac ccgaatgcaa atttttatcg 120  
 aggcaataga tctaaatata tgggaagcca ttgaaatagg gccttatata cccaccacag 180  
 tagaaagagt ttcaatagat ggtagtccat caagtgaaag cataaccata gaaaaaccta 240  
 gagatagatg gtctgaagag gatagaaaaa gagtacaata caacctaaaa gccaaaaaca 300  
 taataacatc tgccttagga atggatgaat atttcagagt ttcaaattgc aagagtgcct 360  
 aggaaatgtg ggacactctt cgattaacac atga 394

<210> 10229  
 <211> 465  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations

<400> 10229

gcttccctcag gagtccaaat cttcattctt cttgtaagac atctttttat cgcataata 60

ttagtggata ttgcctctcc ctagtagcaa tgaggcaatc ctattccttt caacatacat 120

cttgccatat caagcaaagt tttgtttctc ctctctacta acccattgtg ttgaggagta 180

tatgggggtg tcacttcatt ttcaatgtct tttatcttac aaaactcatg aaaactcctt 240

agaattatat tctcccccct catcagtcct tagaatcttt aattcatgac cactttgtct 300

ttcaaccagt gcacaaaaat tcacaaatac tgaaaacact tcactctttt cattaagcaa 360

gtacaaccac accttttctag ttaattctac aacanaggtn gtgaaatacc tgtttccccc 420

aatgatggag tcttaattgg accacacacc tatgaatgaa ccaact 465

<210> 10230

<211> 411

<212> DNA

<213> Glycine max

<400> 10230

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ttgtggctgt cttactgggt tagctccatc ctctaaattt atttgatgca tacatgtgga 120

tggtgctaata ccaggaatgt ccgtcagggt ccaacctata gccttcttat gcttcttgag 180

aactgacaac aacttctcct cttgtctatc agcaagggtg gcagatataa tcactagaaa 240

actcttgcta tcatccaagt aagcgtattt taaatttgat ggcagagact tcaattctgg 300

tgtggtcggc tggacagtgg tagaaggaga tggtttctca gcctttacct cataaagaaa 360

gtcagaggta tgtgtacttc ccgaacatg gttagtctta tctgactcta t 411

<210> 10231

<211> 430

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10231

agcttcttat tcatattttg ttggtacata ttgcttntta ttcacataac accaatagta 60

ttccatttat aagcagagat tgacgattca aattacatat ttataagaga ccaaccaaac 120

acaaagcaac cacagcttat aacacccgta acaaataccta gaacatttga atttgcaaag 180

gcggggccatg accactttat tctaaaactt caaacacaaac acatacttat tattttattga 240  
 tacatgtatt acagctatct ctgcttgaag gttatgcatg ttgatctcac ttgcagctgc 300  
 atgggtcgca agtgcagttt gatccacagt tgcagccacc gttctcagct gcaacaccca 360  
 tttcagcacc ctgcaattgg gccttcaccg gcccaacacc caaaactaga gtctcatttg 420  
 tgatcttctc 480

<210> 10232  
 <211> 429  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10232

agcttatgac aatttgaat tctcgagagt tttctatgat taattntgag cgtctcgata 60  
 tattataagt ctgaatcgga cctacgtgtg aaaagttatg accatttgaa ttttttgaga 120  
 gattccgttg ttcaatttcg agcgtctcga tatattatgc gcctgaattt gacttgccctg 180  
 tgaaaggtta tgaccatttg aatttctcaa gagcatgcgt tattcaattt cgagcttctc 240  
 tatatgtgat gcgcctaaat cagacatccg gggtaaaagt tatgaccatt tgaatttctc 300  
 aaaagcttcg gtagttcaat ttccgagcatc tcgatatatt atgcgcctga atctgacatc 360  
 cgtgtaaaaa gttatgacca ctttagttta tcgggagctt tccgttttca attgctagcg 420  
 tctctatat 480

<210> 10233  
 <211> 405  
 <212> DNA  
 <213> Glycine max  
 <400> 10233

cttacttagt catatggaga tcccaaattgc acaaggttga gacatcctta tatacgccctt 60  
 cttccaaatc aatgccaaat ttggcatttc cagatgcatg ttctgcatac agagaagata 120  
 tgatctccat tgcattgaac ccagcattct cagccaaagt tctaggaatc atttgaaaac 180  
 ttttagcaaa ttttgcata acatattgat ccaacctgca gggccattga aaatgtttag 240  
 tccatcccat tcccggtgca aataccaaat aagcattgaa caaaataaat taagtccaat 300

gaatagagac aataagtatt tccaaataat acacagtaat ggtgccgggt taaaaagcat 360  
ctagtgaata gagatagtaa ctatttccaa atattacaca gtaat 405

<210> 10234  
<211> 390  
<212> DNA  
<213> Glycine max

<400> 10234

tggaggacaa aacaagtag tgtacaagtt cttggttcta tggcataccg tgctcctcag 60  
catttgcttc ggtgtctccc taagattggt cccaaattgg ctgaggtata acatgaagca 120  
aacattatct ttcacttcta aattcctttt aagctataga ttgcattacc ttaacccatc 180  
tcagtatttg aaggttttga ctgatacaca tcttaaagtc cagtcagctg ggcaaattggc 240  
ccttcaacac gttagtcttg acttacgaac tattctatcc atttgattcc tgcttgcttc 300  
tgtgattaat gtttttaatt ttcattgttt ttccaggtag ggaatgtgat agagtcacaga 360  
aatatctggg cttgtcccta ctctacttaa 390

<210> 10235  
<211> 454  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10235

tgcaagcttg aggcgtgaac ccaccatttt tagtattata acacctgtta tgtgtctact 60  
atcattgtaa tcatctcctt ctccaccatt tgnngcacta cttgagctgc cagggtccttc 120  
cacctctggg cgtattcctg gaatgactca tgccccttct tgcacaagtt ctatagttgc 180  
actctatccg gagccatatt agaattatag tgatattgcc taacgaacgc aaccattagg 240  
tccttccaag aatgggactcg agaaggtttt atattagtat accaagtgc aaatgctgat 300  
tcattgggca agtagtcccc ttatacttat caaagtccaa gaccttaaac ttcagaggaa 360  
tgatgacatc aggcactagt cacaactccg cctccttcaa tggccctcag cctntcctct 420  
atatgatgca aatttccgct ttctaccata gcaa 454

<210> 10236  
<211> 454

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10236  
  
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 tgccaaacaa agtcaggtta gccataactc gctgtgctt tttcttccat gccatatgta 120  
 gcaaagtcgt tgatcctgtc aagtttaatg agctggaaaa tgaggctgca attatatgtt 180  
 gccagttgga gatgtatattt cccctgcct tctttgacat catgattcac ttgattgtgc 240  
 atctcgtcag agaaatcaaa tgttgtggtc ctatttatct gcagtggatg taccagttg 300  
 agtgatacat gaagatctta aaagggata cgaataatct atatcatcca aaagcatcta 360  
 ttgttgagag gtacattgca gaagaagcca ttgaatcttg ttcagaacta cattgaaagg 420  
 ctaaancttg tggccttctt gagtcttgac atga 454

<210> 10237  
 <211> 446  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10237  
  
 agctngacat ctatatctat aatttgtttt atttatntaa aatttagtgt tcaaatagta 60  
 taaaatgga tttatatctc taatattaat agtttaattc gctttctcgt ttatatcttc 120  
 atgttactat tatccttgta tattgaattt taaaattgta ttagaaaaaa ttatttaata 180  
 ttccacattc taggtttata ctaccatcaa ataattgtta atttactata atataattta 240  
 tagtgatttt aaataacagc tagtgactt aatgtttgaa gtcccagtat atcaacattg 300  
 ttgtctcaac aactacattt catatttggt tatgaatgta tctgatgaaa gagtctgtct 360  
 tatatatgtg agaacaagag aataactaat gactattaaa ttctattatc agtagttgag 420  
 attagaaaca atctagctaa atgact 446

<210> 10238  
 <211> 343  
 <212> DNA  
 <213> Glycine max  
  
 <400> 10238

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aattagggat caacttgaaa cttatgtgct tcaagtgaga agaaatgctt ctttttccac 120  
ttgtgaagat gttcaaagtt tggctatgaa gatggttcaa actgagaaac atttggtatt 180  
tccattggtt tataaaactta ttgagctagc ttgatattg ccggtgtcga caacatccgt 240  
tgaaagagct ttttcagcaa tgaagattat caagtctaaa ttgcgcaata agatcaacga 300  
tgtgtggttc aatgacttga tggatgcta caccgagcgg gag 343

<210> 10239  
<211> 353  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10239

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actaaatcgc cattcatggg gctcccgaaa aggggttgagg atggcgaatt gcaactaagca 120  
atcactatgc aatgctccaa cctcctgcgt ggaggacgca tgaactgaaa cgcaattcat 180  
ggcgctccca aaaagggttg aggatggaga attgcactaa gcaatcactt cgcattgctc 240  
caagctcgtg ggtggaggac gcatgaacga aaacgcaact catggnngctc cgaaatagga 300  
ttgagaatgg agaattgcac taagcacatt acggcacatg gctccaaact cat 353

<210> 10240  
<211> 410  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10240

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catgttagga aagcagggtt ggaatttgat taataaccca catactacaa tttataaaat 120  
tctcaaaaaa aaatattatc caaatgttgg attcttagat gccaaactag ggcataaaac 180  
aagctataca tcatatagta tttttgcttc acatatattg gtcgaagaaa gcaattagt 240  
cagaaaaagt gatggtagct ctataaacgt ttggacccaa ccttgggtgt gagcatcaac 300  
aagcccatat atcacttcat caaccctgct cgatcttgat gatctcaaag tcagttcact 360

catcgacaac caacaacgat gttggcgtca agatgtgcta caacaaattt 410

<210> 10241  
<211> 418  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10241

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gagagcaaga aatgaagagc caatgggtga tacatgggta gagatgaaaa ggatcatgag 120  
gaagcgggat gtgctggcta gttactcaag ggacttgaaa ttcaagctcc aaaaactaac 180  
ctaaggcaac aaggggggttg aggagtattt caaggaaatg gatgtgctta tgattcaagc 240  
aaagattgaa gaagatgagg aggtaactat ggctcgattt cttaatgggt tgactaatga 300  
tatctgtgat attgttgagt tgcaggagtt tgttgaaatg ggtgatttgc ttcacaaagc 360  
aatccaagta gagcaacaat taaaaaggaa aggagtggct aagaggagtt ctaccaac 418

<210> 10242  
<211> 352  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10242

aaactcacgc ttagatgttc taaatttntt tattatgtga tattatttcc cattttctat 60  
actatgctag caaacatgaa tttaatgtat tgtttaaaat ataatattta tatttttgaa 120  
aaatctcaat gtacttatat ttatattatt ttgatttaga tgtttataat gtttatgtgg 180  
aaaacctttt ttttagagta tacattttca ttgtaatttc atttgtaatc ttgtttagtt 240  
tctctgtaac agttagtttt tcatttatga tttagtttct tgctgactca gcagttagac 300  
acttattttt tttaaatatt tatattattg gatcagtaat ttgaaacaca ag 352

<210> 10243  
<211> 410  
<212> DNA  
<213> Glycine max

<400> 10243

atctgggtccc taaaaaggat gggacatggc tgtataagca agcttcatga tgaatgaatca 60  
 agatcgagtc atggagtttt gatgatgcc aagaatcaag agtcaagcaa attccaaaga 120  
 ttcaagaatg aagctccaag aatcaagatc aagattcaag actcaagatt caataatcaa 180  
 gagaggactc aattaagata agtattaaaa agttttttca caaactgagt agcacatgaa 240  
 tttttctcaa aaccttttac caaagagttt ttactctctg gtaatcgatt actagattat 300  
 tgcaatcgat taccagtagc aaaatggttt tcaaaaagct tactaactga atttataacg 360  
 ttccaattaa tatcaaatg ctgtaatcga ttacaagtat tttgtaatcg 410

<210> 10244  
 <211> 246  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10244

gcttctgggc tgagctngga atngacattg ttattgaggt ttattcccca tttcttgact 60  
 tttttcaaac acgatccaat attgtttact tattgaagag ctccataaaa gaacaatgag 120  
 tgagattttg ttacaggaac cggagtgttt gtggatggcc ctgtggctgg cgaacacatc 180  
 caagcacgtg ctaaaaaggt tatcatcact gctccagcaa aggggtgctga tattccaact 240  
 tatgtt 246

<210> 10245  
 <211> 417  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10245

catacttcat atggatcaac ttacacngtt attgttttgg atcgccaaaa aaaaaacaat 60  
 ttataatata atttattcta attcatgtat aaataaaaaat aactattttt ataattgtta 120  
 agagaattaa ttgaataaat ttaattttgt taatctgaag taaaatataa aattattcct 180  
 aaaatgtcat tttttgaaat ttgatatcat gaataaaata aaaattttga aaatacaatt 240  
 gtaattaaac aaagaatgtt ttaagaatca tattattaat tatggacaaa attatttgag 300  
 tccaacatac aaattaaaat aactgttttg cttatatata aatgcaaaaa actacaaact 360



aaattaaatc aaaccaaaca aattaaatat aactattttg gatttaattt tattttt 417

<210> 10246  
<211> 422  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10246

ntatgcaagt caattntcag gaggcatttc ggagagaatc ttntcggac ttaatntgcgc 60  
aaaactctctt gaactaggaa gatgttgtcc atcatcttcc tgttcttaat gaaagcagtt 120  
tgagtttccc caataatagt ctcaagcact ggggctatgc ggttggccag aatttttagac 180  
acaatcttgt ataacaaatt acagcaagat atgggtctaa aatgggtaac ctgngaggcc 240  
tgatcatgct taggaataag cgcaataata gcatgggtga gctacttttag aatttttcca 300  
ggtgttaaaga attcattaac cgctgcaaag atatcatcac caatgatatt ccaagccttc 360  
ttgaagaata aaacattgaa accatctggc ccaggagctn tattgttatt catcacagaa 420  
at 422

<210> 10247  
<211> 419  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10247

gcttatatat ataaaaagat atacccttta cttattttaa ccaaanacaa ttttgatatg 60  
tgttggttta tgtaattttg aaataaaaaat atatagaaag ataaaacttg aaagggttata 120  
tatagaaagt tcataaaagtc gtaaaagatg aatatataaa aatgcgtcaa aagtacatga 180  
tgaagatagg gtgaacagaa gttgggttaa gtgaatnttt gacaacggaa accaaaataa 240  
taaaataaaa aaaaaaagaa aaaagctatg gaaaacttgc gtgtcccaa agctatgggtt 300  
tgtagtctga tgcagagctg ctgagataag gatcatcaga tcgaatatct tcttcatac 360  
tgccttcttc tctgactata tggattccaa ttgctntaat gactgagctc tctaactct 419

<210> 10248  
<211> 401

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10248  
  
 agcttgtgct aagaangctt tatccatttc atcatattnn aagaaaattg aatgtcatga 60  
 tccatcactt ctctgcatat atatttagta ttaagatgtg taccaacaat cctaaaatgt 120  
 tctgtgcaga tattttccat tgaaagacac tacacaagat tagagactcc gaaattaatt 180  
 trgttttatg ccaattgcta ttatgctttg ttgtgtcttg ctaaatgcat atttaatttg 240  
 aagcaacttc attatttttg tgttatctgt taatgggtta attggataat agtttacaag 300  
 ccacgtaata tataatttac atatatgtgc agagatgtaa tattgtcatg taaattttaa 360  
 tatttaatta ttgttatgtt agagtatgtg catgcaattg t 401

<210> 10249  
 <211> 457  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10249  
  
 actcagctag cctagaatta acaaggaatg ttatcatata ttcaattttc attaagtagg 60  
 aataatactt gcaaatgaac cacacctgca taactgatga agagctgagg ttcttaaaag 120  
 gtaagctttt gaaagggttg gggttacttc tctgcagca tttagatcat caagtgccta 180  
 tatataatct ttcactttta tgttctgtga tgctgtctca aacaactcag caacattatc 240  
 aggttttcga tctaatacaca tccaaaaaaa caaaacaaat acagttcagg cctcgaagag 300  
 gcgtangagg tgcattgtgc angtgttgcc ctctgtaccac accgaggaga cgccaacctg 360  
 cgacttgccc atgttgtcct cggagagacc cacaccatgg agcatggcct gngaagtgcc 420  
 ctangacttg nngctcgtga tgcggaagtt gtacctg 457

<210> 10250  
 <211> 423  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10250

tctaagtcac ctgcggcatg caagcttcag gcaatcctac nncagagaat ttcactttta 60  
catctattcc aaanctgag ntttctactt caaatgctac tgtcaataat acctctaata 120  
ttgtttcaaa ttctgatgtt acctcttcca gtagtgctaa tctttggcat gctaagttag 180  
gtcactctaa tgagcatgta atgaaaatta ttctcgaata gtgtaaatatt tctcaactga 240  
ataaaaaacat cacagagttt tgttctctt attgtatggg taaagctcat aggttacct 300  
ctcagggctc aacttctgtt tattcacctt tagaattcat tntcactgac ctatggngac 360  
cctgccatgt tacctcttat gttggctata catatgatgt ttccttcatt gatgctctct 420  
ct 422

<210> 10251  
<211> 418  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10251

agcttgacca ataaagacag tatcatatta tactgttga natnaatagg ctctttctgt 60  
tttcccacca agtagctttt atacagattt ttcgaaatgg cctctctcat caatccagt 120  
agaccttcac ccacaatatt aaagagcaaa ggggctagag ggctcccttg tctcagacct 180  
cgagtagggg caaattcatt agtagggcta ccattcacta aaatggaaat agttgctgat 240  
tgaaggcatg cagcaatcca ttgcctctat ttagtgcaga agcctaactt tgacagcata 300  
tagtccaaga aagaccaaga tacagaatca tagcagattt acctgggtta gtttactaaa 360  
gggtaaattt caagtgcctat ccttagtaca gaatttcata gctnntgttg aaagacag 418

<210> 10252  
<211> 412  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10252

agctttntgc tttagctat atgaacattt ttgtcttcca acaatgagaa ggtgaattcg 60  
tggttcttgc actttctcat gatttctgtg ttctcgtgaa aggtaaggca caagcaataa 120  
agggacaatt agagtcttat acagggacgg ggtaatatta actgagaagt gttagaaata 180

tattattttt aatagattaa aatttattga aaaatataaa ttttttgtat tattaaatat 240  
gactagttaa gatacccatg taatgtaaat tttttgtatt attaaattga attatatgtt 300  
ttcaaaaaat agttaataac tattgaataa aagaaaatta ttaccgatgt aagagaacca 360  
ttgtcaatgt taaactatta aacaaatgta atataagaaa tgttattcta gt 412

<210> 10253  
<211> 421  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10253

agcttccgtt gttcaatttc gagcatctta tatgtgtata cattagaanc ggaaatccga 60  
gtgaaaagtt atgaccattt gaatttcttc atagcttccg ttgttcaatt tcgtacgtct 120  
cgatatgtga agtgccctgaa tcggacatcc gagtgaaaag ttatgaccat ttgaatatct 180  
cgagagcttc cattgataaa tttcggagcat ctcgatatgt gatacaccag aatcggacat 240  
ccgagtgaaa agttatgacc atttgaattt ctccatagct tccgttgttc aatttcgtgc 300  
atctccatat gtgaagcgcc tgaatcggac atctgaggga aaagttatga ccatttgaat 360  
atctcgagag ctccatttga tcaatttcaa gcgtctcgat atatgattcg cctgaatcgg 420  
a 421

<210> 10254  
<211> 481  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10254

tcaattggag tcttgtcttt tacagactta tttagacatc tgtngagtat gtaaacagca 60  
gtgtagactg ctccagccca gaatgtgtta ggtagtcctt tatccttgag catcgatcta 120  
gccatttcta taactgtgcy attctttctc ttggacactc cattttgttg aggagaatat 180  
gcgactgtaa gttgtcgctc aataccttca tcttcacaaa atctttcaaa ctagecgagag 240  
gtgtactctn tgccgcgata acatcttagt acttttatcc attttccact ttgattttca 300  
gcaagggcct tgaactttnt gaatactcca aagacttctg atttttcttt tagaaaaatat 360

acccatgtca ttctagagaa gtcacaaatg aagagtatga agtacctgtt gttctcatgt 420  
 gatggcgctc tcaatggctc acacatgttc gtatgtatca gctctaataag aattttcgct 480  
 c 481

<210> 10255  
 <211> 289  
 <212> DNA  
 <213> Glycine max

<400> 10255  
 accacattca atgttcccat caaaacactc actatcctac ggaaagattg cctaacagta 60  
 ttacacacaa atggaagctt ggtaacctat tgtatgtctt caacacaatt tcaatgaaag 120  
 gcctttctgg taaaaaactt gaaacctatg actgtacgta catggctgat taaaaatta 180  
 caaaacggct ctttaatactg gtggctcttc ttcttttggg gactcaacta aacactagtg 240  
 cttgtgactc caatatttct tgatgtggac ggaccttttc ttcttgact 289

<210> 10256  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> 10256  
 cgcataaaat atcgagacgc tcgaaattga acaacgaatg ctcttgagaa attcaaatgg 60  
 tcataacttg tcacacggat gtccgattca gctacataat atatccagac ggtcgaaatt 120  
 gaacatcgga agctctcgac aaattccaat ggtcataact ttccacaagg aagcccgatt 180  
 cttagcgcatc acgtatcgag atgctctgaa ttgaaaaccg gaagctctca agaaattcaa 240  
 atggtcataa cttgtcacac ggaagtccga ttcagacgca taatatatca agatgctcga 300  
 aattgaacaa cgaatgtctc cgagatatca aatggtcata acttgtcaca cggaagtccg 360  
 attcatgtgc ataacatatc gacacgctcg aa 392

<210> 10257  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10257

agcttcccg c atgtattaag agacggagta attggaattg ncaagagaaa gctctcggt 60  
 accacactgc caaaagaaat tagtagtata atttatcaga aatgatcggt tgaaaaacaat 120  
 tagatcatat tagccttatt tttatttaat gaaaaatata actattaata tagatattgt 180  
 gaattttatac attaagatta tgacatatta tattaacaaa caatttaggt aatataaaat 240  
 attgatacat tattaatata aaatatattgt ataatatgtc atattattaa tgtaaatctt 300  
 catagtctat attacttatt aattaattta atttttcata ggcataaaaa taaaaataat 360  
 taaagtaatt ctaacgtctg acaaatatta attatctatt agtaaatcac 410

<210> 10258  
 <211> 329  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10258

agcttgaaat ttaacaacgg aagccgngtg atatttttag gttataacna ancacacgga 60  
 ggtccgatac tggcgtatag tatatcgaga agctcataat tgaacaagga gagctctcaa 120  
 gaaattcaaa tggtcataac tcttcacacg gaagttcgat tcacgcgcac aatatatgga 180  
 gaagcttgaa attgaacaac ggaggtcttc gagaaattaa atggtcataa tttatcacac 240  
 ggaagatcga ttcaggcgca taatataccg agacgctcga tattgaacaa cggaagctct 300  
 cgacaaaatc agatggacat aacttatca 329

<210> 10259  
 <211> 399  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10259

agcttaacag tagaattggt tatctggata atcaaaccat cagtcacaag gccgcacgcc 60  
 aaagtacaga cattaggttg gaaaccaact gaatcagtc catcagtaaa acttaagcca 120  
 actgacaata ttctgggttc ctcaacaaat gatagaacca gaaaagaatg gtgtgaatcc 180  
 gtaactctca ttcggaccgt ccaagtacca gttacccctt gatatataga agcagtccta 240  
 tgtagatttt ccacattaat accatttcga ataaccctta atgacccctc tggtgccaca 300

ccacagcaag caaacatttg atcttgcttc tcatcatgat aatctacaac ttccatatcc 360  
aagaatggtg caatgttttg aatangggtt atatagcac 399

<210> 10260  
<211> 354  
<212> DNA  
<213> Glycine max

<400> 10260  
gagcgagagc tataccgagc caccctcctt caccacgaac ttcgtcacgc tgggggtgaat 60  
atccatcgag tgcgccctaa cgtcgccaaa ttagtcagtc ttgccacga accggaagaa 120  
ggtagggggc tactccaatg gcacatcggc gtcagagcgg aaaggaaact ccatacaca 180  
actgaacacg tgcgggagtc actgaagcat ttggccagcg ataccaaca gtgggtgaac 240  
atacgacaat ggattgccc cgtcgccacc gaattggata tagattttga atggtttagg 300  
aacaacgagg aacttatgat attgtgccac catgggacgc tacagagaaa tgca 354

<210> 10261  
<211> 410  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10261  
agcttcggcc gcgttgatcc cggcaacttt aacctgtata tattgagcnc cagctagacg 60  
agcgagagct ctaccgagcc accctccttc accacgatct tcgtcacgct ggggtgaata 120  
tccatcggtg gcgcctcac gtcgccaaatt tcgtcagttt ccgccacgaa ccggaagaag 180  
ttaggggcct cctccactgc cacatcggcg tcggagcgga agggaaagctc cagcacacag 240  
ctgaacacgt gcgggagtc ctgaagcttc ttcccagcga tcccagcag tgccctgagca 300  
tccgacattg gattcctccc gtcgccaccg aattggatag agaatttgaa ttttcgagga 360  
acaaggtgga ccttcatgat tntgttccca ccattggaacg ctacagagaa 410

<210> 10262  
<211> 368  
<212> DNA  
<213> Glycine max

<400> 10262

cccataaggg gtctccaaca tcgcaccagg ccctaagaag gatgggaagg tgcgaatgtg 60  
catagattat ctggacctga atcaagctag tcccaaggac aatattcttc tgacacccat 120  
cgatatactc atggataata cggccaattt cgctgtgata tccttcattg atgggttctc 180  
cggatacaat cagataaaaa tgggtgccaga tgatatgcaa aagactacct ttttcacct 240  
gcggggggacg ctctattata aagcgatgtc ctttagactc aagactgccg gtgcaactta 300  
tcaacgggct atgagagctt cgttcacgat atgatgcacc cagaaatcga cgtctatgtg 360  
gaccacat 368

<210> 10263

<211> 432

<212> DNA

<213> Glycine max

<400> 10263

ccaaccgagt acaatctttt gttatgttgc aattttatat attcttgatt atgctaattc 60  
ttaaaaaata tggatattga caaaacaaga caaacaacac aggataaaaa aacaacacaa 120  
aacatataag ttacaagata gatTTTTTat ctgttatatc gcttgataaa taattgacaa 180  
gtaaaaaat ataaaatcta ttaaaatact tcatattagt tatcttaata taacttaagt 240  
tatattttaa gtgtttacta aaatatttct tgtatttttt cattcttaaa attagagata 300  
ttaaaataaa aagaatctga tgttcttttt aaataattac gttagttatt aatttttttg 360  
ttataaagaa aataaaaatg atatcgcccc caatttttta aataaacata aaatattgcc 420  
tatataattt ta 432

<210> 10264

<211> 454

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10264

ngagaacatc cttgaaataa aagaagaggt aaagaacaa tttgacgtg gttntttggc 60  
gtcactcgg taccagaat gggtcgcaa cattgtacca gtccctaaga aggatgggaa 120  
ggcgcaatg tgcatagatt atcgggacct gaatcaagct agtcccaagg acaattttcc 180



tctgccaccc atcgatatcc tcatggataa tacggccaat ttcgctttgt tttccttcat 240  
 ggatgggttc tccggttaca atcagataaa aatggtgcca gaggatatgg aaaagactac 300  
 ctttttcacc ctgtggggga cgttctatta taaggatgatg tcttttagac tcaagactgc 360  
 cggngcaact tatcaacggg ctatggtagc tntgttccac gatatgatgc accgagaaat 420  
 cgaggtctat gtggacgaca taatttccaa gtct 454

<210> 10265  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10265

agcttagagg gaacataaag agcctcattt tttgggtaat gggangcagn gcangcctca 60  
 tttcaattga tcttgctaag gaccttctcc aagtccaccc caattcttat gcattggttg 120  
 ttagaccgga gaacatcact ttgaattggt actctgggaa tgacctatcg aagcttgttt 180  
 ccaattgttt gttccgtatg ggaggggctg ccattctgct ttctaacaaa ggctctgata 240  
 ggaggagatc aaaataccag ctggttgaca ccgttcgcac taataagggt tctgatgaca 300  
 agtgctatgg ctgcgttgtc caagaagaag aatccagtgg caagaatggt gttactttgt 360  
 caagagattt gatggcagtt gctggtcatg ctttgaaaac caacatcacc ac 412

<210> 10266  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<400> 10266

agctggtaca attaaacagt ttttattata atctgatcca aactaatcct aaaacttgaa 60  
 ttgtgtagaa caaatcaaca gtcataaaaa cacaaatgat gagttggcat tcggcaacca 120  
 catcataaca tgagatgagt aatgagttgt ttctattgga atgttcacaa gaagaaaagc 180  
 atagaatttg agggaattga agcaaaagaa agaaagaaga aagattaaat taaaaataac 240  
 cttatcatag gcaaggcgtg catttgggtc agagagaatg gaataagctt cgttgagtat 300  
 gatggccatg tcatggccag cagggccagc aatgtcaggg tggcagcgt tctgaagaga 360

gcgatacgcc actttgacct gtgactgac acaagagctg tc

402

<210> 10267  
<211> 370  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10267

agctntaccc tttatttaca ttaaccactt tttataacaa cagcacacac tcctctgcta 60  
ggtgccacaa cagtctcctt agtccaaaag aaatacataa tactgttgta tctagttctt 120  
ttaaactttg gcatacaaga ctaggccatc ctaacaagga tgcactagca attgtactan 180  
ataaatgtaa tataccctct atcaataaaa ctagcagtga tttttgtaat tcttgctcta 240  
tagccaaatc tcacaaacta cctctctctc cctctnttac tgtttatact gcacctcttg 300  
aattagtatt ctttgatgtt tggcgccct cttcagtaga gacatcttgt ggattcttgt 360  
attatctaac 370

<210> 10268  
<211> 419  
<212> DNA  
<213> Glycine max

<400> 10268

agcttccctat ataaattgaa atgaatatta attgtatgga acaatctagt ggtaataaaa 60  
gtaaaataaaa ggaatgctac tctaacaaaa acgcgtgggt tgaagacat taagaaagaa 120  
aaagatatat ctctcccagg tctgctcca tgtcgcaatt caaacctgac tgctctctct 180  
agcttcttac aaggttcaca aatacgaca ggtgaatcac cttgtccgag taaaaccatt 240  
ctttgtcgag tacaactgcc gcaaaagatt ccccccacac tcctacagtg atgctgaaaa 300  
ataaaaataaa attgcaaaaa aagtaaataa aaaaattttg gacaaagaat tcagtttgag 360  
ttcaatcaga ttcatctta tactgtaacc aaaaaaatt cattcttata agcaaacgt 419

<210> 10269  
<211> 304  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 10269  
cagatagagc ctctagagac actgataaga catcttccat ggtaataatt ccaacggctt 60  
cttcttcttc agggagcttt ggaaggggac ttccatctat ctccaaaata tccgagtaca 120  
tattttttga ccattttctg ctccgagaac ccctatttga tgacttgttt gtatttggaa 180  
agctnttcca ctctgtggagt ggcacatttg gtttcaaagc tttctctttg ggaggctttt 240  
caccatcaat atccacctta acatctctca ccgagtctat ttcagaggcg tgagacacgg 300  
agca 304

<210> 10270  
<211> 468  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10270

agcacctctn ttctcactc ttcttctat tttgggtttt gtcgtctctg gngttgttag 60  
actggcctgt tattgtcttc catcattatc ctatgtatgc agtaagcagg gctaattcct 120  
ttgagattca atatatgcca tccaatcgct tccttatgtt tcttcagaat gtctaccaac 180  
ctattttctt cttcttttgt tagtgcatta ctgatcacta tagtntnagc gtcactcttc 240  
tccaggaaca catacttcag atgattaggc aatattttta gctctacctt cttttttctg 300  
gacggaggct cttcttttag tgtctcaaaa ccggcttctc cctcaggaat actttcttgt 360  
cgatccaagt cctccaggc agtctagcgc atttaccatg gctntntcca gcgaagtctg 420  
tggtgtctcg agaatactga cgtcttctct atcaatctcc tgcactct 468

<210> 10271  
<211> 423  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10271

ntacaacaga tgccactcta tgctaaattt ctgaaagaca ttctaactaa gaagaacaag 60  
tatatccaca gtgacaccat agtcatggag ggaaactaca acactgttat tcaacgtatc 120  
cttccactga agcataagga tccgagcagt gtcactatac tttgttctat aggtgaagtt 180

ttagtaggca aggcctctat tgatttaaga gccagtatta atttgatgtc gctctccatg 240  
 tgcaggagac ttggagagct ggagataatg cctactcgga tgaccttaca gttggctgat 300  
 cactccgtea ctagacceta tggagtgatt gaatatgttc tggttaaagt caagcatctt 360  
 atctttcttg cagatnntgt ggttacggat atagaggagg atcctaaaat tccccataat 420  
 ttt 423

<210> 10272  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10272

agctngagcg atgtggaaga tattgaaatg ggtnnaggta actgatcgcg tggggggaaa 60  
 atggattttg gggctcttaag ttatgaataa gacaacatcg gtttcttaaa caaaaccgat 120  
 gttaacttta caatgttaac atcggttttt tcaaaaaccg atgttaactt tctacagtta 180  
 acatcggttt ttcaataacc gatgttaaga tattaatgtt aacatcgagt ttggaaaaa 240  
 tcgatgttaa catcaacttg ttaacattgg ttttttcaa accgatgtta attaagtcaa 300  
 cttatttacc aaaatgccac cgtgctttta ttacatcgc ttttgcgaaa aactgatgtt 360  
 aagcttgcca tgttaaatca ataatttgta gtagtgattt accacagtat tt 412

<210> 10273  
 <211> 262  
 <212> DNA  
 <213> Glycine max

<400> 10273

agcttcaca catcattttt ctggaattgc ttctgaatag ccatttagca cctactgctt 60  
 tctttccttg aggttctaga gttgtaaact ctataggcct tagatatttt aaagtatcca 120  
 agtattatcc cattatcaca cttagagtca aactttccca agttgtcttt aatatttaga 180  
 atgaaacatt gacatctgaa aggatggaaa tatgaaatgt tgggctttca tcttttccac 240  
 agttcatgtg gagtcctttt ca 262

<210> 10274  
 <211> 261

<212> DNA  
<213> Glycine max

<400> 10274

agcttgttca ataaagacag tatcatcagc atactgaagg atattaatag gctctttctg 60  
ttttccacc aagtagcttt tatacagatt ttctgaaatg gcctctctca tcaatccagt 120  
gagaccttca cccacaatat taaagagcaa aggggctaga gggccccctt gtctcagacc 180  
tcgagtaggg gcaaattcat tagtagggct accattcact aaaatggaaa tagttgctga 240  
ttgaaggcat gcagcaatcc a 261

<210> 10275  
<211> 264  
<212> DNA  
<213> Glycine max

<400> 10275

agctttgtat gcactattca atggagttga caagaacatc ttcagactga tcaacacttg 60  
cacagtggcc aaagatgcat gggagatcct gaaaatcact catgaaggaa cctccaaagt 120  
gaagatttcc agattgcaac tcttggttac aaaattcgaa aatctgaaga tgaaggagga 180  
agagtgtatt catgacttcc acatgaacat tcttgaaatt gccaatgcct gcactgcctt 240  
gggagagagg ataacagatg aaaa 264

<210> 10276  
<211> 262  
<212> DNA  
<213> Glycine max

<400> 10276

agctttttac tgaatttgca tcgttccaat tgatttcaaa atgggtgtaat cgattacaag 60  
atattggtaa tcgattacca gtgtatctga acattgaaat tcaaaatcaa ttgtgaagag 120  
tcacatcctt tcataaaatg ctttgtgtaa tcgattacat ggttttggta atcgattacc 180  
agtgacaagt tttgaataaa aaagtcaaga gatgtaaactt ttctaattggt ttccaggttt 240  
ttcttaagat tataactctt cc 262

<210> 10277  
<211> 263

<212> DNA  
 <213> Glycine max

<400> 10277

catgcaagct tttgtttct tgaataatc aaaccctta aacagttacg acggctaatt 60  
 tgcttagctg gtagctgcct ggccgcacag ataatgagaa taagaactac tggaacaccc 120  
 ggatcaaaag gtgtcaaagg gctgggttgc cactttatcc tccaaaagag agtttgcaag 180  
 ctttgcaaga gagccaacat agccaaagct ctggtggact taatggtggc gaaaaaatgc 240  
 atcctgattt ctgcaagaaa aac 263

<210> 10278  
 <211> 259  
 <212> DNA  
 <213> Glycine max

<400> 10278

agctttttta tcaagttacc aaatgcattt cgaagcccgc gaggaagagc attcattatc 60  
 ttatccagct cagtttttga atcataaaca atttttggac cccactctct cataaattgc 120  
 aaccattgag gctctctgac aacatctcct agatactcgg ctgcaacaag ctcgatttga 180  
 atgctagaat ccacatacaa atgactacga gtagcatcat tccataatgcc aatcccaagt 240  
 tttgaagacc cttggagat 259

<210> 10279  
 <211> 260  
 <212> DNA  
 <213> Glycine max

<400> 10279

agctttgaac tgatattctt attattcaat gcattcctca tcttgtaaac atagtcatcc 60  
 aaagcattca ttgtattagc cttcttcctg aacttcctat catcaacctg ataattctca 120  
 gcttcatgaa tcattcttat aatctcctca gctgaaagcc ttttttggtc attggttatg 180  
 gtaatctcat tccataaacc agtgggtgtt tcttcacag aaacagatag aaggctgttt 240  
 acatctatag taaagctaca 260

<210> 10280  
 <211> 263

<212> DNA  
<213> Glycine max

<400> 10280

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agcttatttt tttaggctcc gtaaaaaaag gaaaatagca taaagagaca atggggtaga 60
gaatttttga aatgcttagt tacccttttg gataatatga taagtatctt cagcagctga 120
tcgcgtggct gcgacctgaa attggaagtg aaaaaataa ataaataggg caattaatta 180
aggaaagaga aagagaagag aaaataactt acagctccga tcttaaggaa accatcaaca 240
gtgagattga gaaatggatt acc 263
```

<210> 10281  
<211> 348  
<212> DNA  
<213> Glycine max

<400> 10281

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tggtctgaac tggtcactcg gatctctgat ttaggcacat cacatatata gacgctcgaa 60
attgaacaac ggaagctctc gagatattca aatggtcata actctaactt ggaggactga 120
gacaggcaca taatatatcg cgacgccccg aattcaacaa cagaagcact tgagataatc 180
aaatggtcac tacttttaac tcagatgtac gtgtcccgcg catcacgtgt cgatactctc 240
taaattgaac caccgacgct ctgagataa tctaattggc aaacttccca ctctgggacc 300
gaatcacgag catcaacatc gagacgctcg taattgaaca atggaagc 348
```

<210> 10282  
<211> 367  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10282

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atgtctctng gtgatgggat tgagatgccc gatctnttta gtgttgcca gtttgagag 60
caagtctact ctagtgttgn tctcccttgg tatgtggaac aactcatagc aatcaaagtc 120
atcaatgatg gtttttgcaa catgatagta cttgaacctt ggcttgatat ntgtttgcaa 180
cttgccctta aacaaggtat gagtcagtgt aacaccttat ctttttggct ttaacttctt 240
ttgctagctt taggcatgtt ataagtgcct catatttagc ttgattgttt gatgctttga 300
```

aattgagctt gagagcttgc tctaaagtaa cattgtcgag ccttcaagg atgatgctng 360  
 tccctac 367

<210> 10283  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10283

agcttctaca ttcaatntcg agctnttcga tatattacgg tactcaatcg gacatccgag 60  
 taaaaagtta ttgtagtttg aatttgctca gggcttcggt attccatttc gagcgtctcg 120  
 atatattacg ggactcaatc ggacatcaga gtaaaaagtt attgttggtt gaatttgctc 180  
 agagcttcag tatccatttc cgagcatctc gatattattac gggactcaat cagacatcgg 240  
 agtaaaaagt tattgtagtt tgaatttgct cagggttcggt gtattccatt tcgagcgtct 300  
 cgatgtatta cgggactcaa tcagacatcc gagtaataaa gtattgtcgt ttgaatctgc 360  
 tcagagcttc tacattcaat ttcgagcttc tcgatattatt acgggactca atcacacatc 420  
 cgagtaaaaa gttat 435

<210> 10284  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<400> 10284

agcttgaacc aggataacag tttatatcta tatcaattag agtttatcga agtagaagat 60  
 accacaccat ggcaagctaa tgtaacttgc tccaagggca aagtttccaa tccatccatt 120  
 ttgttttaac tagaaagaaa tgtagaactt ggtcaaatga tcaaaaataag caagagaaat 180  
 agaaaatata aagaaaaaat caggacaatt aaaaaaaaaac tacctttaaa ggaggcgag 240  
 aatatatata agacagtatg gctccaccga ctgcaaggta aaatactata gggaaatcat 300  
 gccctgcctg taaaagagaa tacttttacc aatcaagctt ctgataaaaa acgaccatga 360  
 gactattgtg tattgtaccc acccatatgt ccaatatacc agccagagaa agaccaccaa 420  
 gcagcaacac ccatatttga gtgattacct g 451



<210> 10285  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10285

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agctntatct aanattntgc attntgtatg atagatgttc tctctttggc attgagatag   60
atcacaaagt tgacctccaa ggagccttct aaccattagg aggtcacctt cttcatgggg   120
gtagacttcc tctactagact ctttcacccc ttacttcata ttcacttcca ctgagaggaag   180
aggaagaagt agtctcctct tgactactat aaatgtcttg acccctcata atcatggttt   240
tctttatggg gcattgagag gcaatgtgac ctctcccaag acatttgaag catttaatgt   300
ttcttgttct ttcttgggaa ctagtcttag ggggtgattt ctctattgtg ttacccttat   360
cttccttggg ttntgaaagt gcagcccca aaattccttg gagtttgtcc ttccttggat   420
aagagtga                                         428
  
```

<210> 10286  
 <211> 455  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10286

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agctntaatc aagacaaaga aattaaagat attcaagatg gatgatcaag acagtctcta   60
gagtccttagg aagggtatat taaataggaa gagaattcct aactgaagta gcaaaagggt   120
tgccaagta atttaagtta aaaagtgttt ttcaagagat ttactctctg gtaatcgatt   180
accagaggat gtaatcgatt accagtgacc aaaaatgatt tacaacagct attaaaattt   240
gaattcaaaa ttgcatgtgt gtaatcgatt acacatatat gataatcgat taccagcagt   300
tattgaacgt tntaattcaa attntaaagc ttgtaatcga ttacacacat actgtaatcg   360
attaccagag aagattttca naaaatatct tcaacagtca catcttttca ttttgttctt   420
gatggccatc acaggcttac atatatgtga tatga                                         455
  
```

<210> 10287  
 <211> 477  
 <212> DNA  
 <213> Glycine max

<400> 10287

agcttctcga tatgtgatgt gcctgaatcg aacatccgag ttaaaagtta tggcgatttg 60

aatttcccgga gagcttccgg tatttaattt tgagcatctc gacacatgat gcgcatgaat 120

aggacatccg tgtgaaaagt tatgaccact ataatttctc gagagcttcg ttgttcaatt 180

tccagcgact cgatatgtaa tgcgcctgaa tcggacatcc gagtgaaaag ttaggacct 240

ttgcatttct cgagagctct cgctgttcaa ttccaagcgt ctcgatatat tatgcgcctg 300

aatctgacca gcgtgtgaaa agttatgaca atttgaattt ctcgagaact tcgctttcaa 360

tttcgagcgt ctcgatatgt gatgcgcctg aatcggacat ctgagtgaca agtcatgacc 420

atatcaattt ctcgagagct tgctgtagtc aatatcgagc atctcgatat ctaattc 477

<210> 10288

<211> 136

<212> DNA

<213> Glycine max

<400> 10288

tgaatcggac atccgtgtga aaagttatgt ccacttgaat ttctcaagag ctcccgtagt 60

tcaatttcga gcttctcgac atattatgcg cccgaataag acatccgtgt gaagagttat 120

gaccatttta atatct 136

<210> 10289

<211> 405

<212> DNA

<213> Glycine max

<400> 10289

agcttataat atategatac gctctaaatt aatctttgga aactctcgag aaattcagat 60

gatcatgact tttcacacgg atgtccgatt cgggtgcata atatgtcgag aggctcgaaa 120

ttgaacaacg gaagctcttg agatattcaa atggtcataa ctattcacac gaatgtccga 180

ttcgatccca taatatgccg ataggctcga gattgaacaa cagaatctct tgagaaattc 240

aaatggatcat aacatttaac tcggatgtcc aatttaggcg catcacatat agagatgttc 300

gaaattgaac aacggaagct ctcgtcagat tcaaatgagc ataactgttc aactgatgt 360

ccgattcacg gttatcatat attgatacgc tcgagatata acatc 405

<210> 10290  
 <211> 229  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10290

tggagntncc aagtgccaat tcgtcttctt ctttagtcca ttcttcttct ggcttcaatt 60  
 catcaatggg ctttccttct gtgtccagca tctcgagatg ttcccagcct ttgatgacag 120  
 ctttcacggt tctgctatcc aatgatttga ggaatgccac cctccttgct ttccagtatt 180  
 ctaatttggt tccatccata atttgnggtc tattcaactgg tcttccttc 229

<210> 10291  
 <211> 472  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10291

agcttgagaa gggtgatntt cgtctcanag tctgtgatga aattgtgata taattgtatt 60  
 aaagcatcac cagcctgaaa atttatagga agaaccgttt gtcaaacaaa taaatntaaa 120  
 ctataataag aatatgcaca tcagagtatg aatattgttt caatagaagt caacanaagt 180  
 tctatcagaa gcaaaagaaa gtaacaatac tcacaaattg tgcaacataa tgaatggaat 240  
 caaacataat aggtaatgtt taagtagaag cattagaaaa ataatgacta aaatacaata 300  
 aagttactta tagtttctca aactacgcat cttgatactg aagtcaattg atgacgtgga 360  
 ttgatgcttc accacattga ataataacaa agataacaaa gactttccaa gtgcaatttg 420  
 atgcctcana tggcaaaaga atccttgat taaatggatg atagaatatt ac 472

<210> 10292  
 <211> 251  
 <212> DNA  
 <213> Glycine max

<400> 10292

tatgtctggt caagtataaa tctgagcata cataatactt cctaacattc cagttgcaag 60  
 caagatatca tcaacataaa gaattagaaa aataacctta ctcacactga cattcaaata 120

tatacaccca tcaatattat ttttcttaaa tccaaagtaa acaatgggat cattaaactt 180  
 caaataccat tggcggaag ctgtcttaat atcgtatatt gatttcttta attgcacata 240  
 atatattcct a 351

<210> 10293  
 <211> 474  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10293

agctngetta gccgatgtag cagattctat ctggcacaag ttttgaggat ccacacactg 60  
 gtgaataagg aaacgagcct tacaattcat tttcttgat tctctgaacg tactcttttg 120  
 tgcttccct gcattcttct ccaattcttg aagtccaate gtgacaaact caagaacatc 180  
 ctacattcca aagatgattt tcatttgaat gcaccatgca tcgtagtctt tccatcaag 240  
 gattggaaaa tggcgtggaa actcgttccc attcatctct acaacaatga agcttcaaag 300  
 atcccacact aaaaccaatc aagactctcc caacatcgat ggaacctgaa gctcgtgata 360  
 ccaatgtcga acccgattgc tcgtgtgaca agcaaaccag aaacttgaca aatttgatg 420  
 aagttgagtc ttgaatgatg aagacaagag agaaagatag ttatgaagag aatg 474

<210> 10294  
 <211> 475  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10294

agcttgatca tccactgcac aaggttcaag ctgttgcgca tgaagatgac agtggaacaa 60  
 tcttgagtgt atattttcag gtggatttgt acacaaagat tcccagcatt cctcgcactg 120  
 gaagtgtctg taattgggct gatgcagntg ctgaagtcaa gggagaataa ttgatcacta 180  
 ctaaaaaagt atgatcaaat tcaaacttgg tgtaaaaata actaaaaatg tccatagtaat 240  
 tctgtttgta gatgcatgtc taatgaaggg aagaagtgag cactcccatc ttcacccca 300  
 agtaataagg ttcagagttc aggcactgca aaaaccttgt acttgaagtt gtttggtaga 360  
 aatgtatgtt acttctatgt taaaaggac ttttccagca gaatcattct tgttgtaact 420

ntataagcaa tactcgtttc ttttaattctt ctccctctnn ttcggtccat aaate 475

<210> 10295  
<211> 383  
<212> DNA  
<213> Glycine max

<400> 10295

tgatgccaac attggagagg ttaatgaaac aacgagatga tgcgctccat gagaggttgg 60  
arcaaataat gaatagagat cataatgaag aataaaggag gagaagaggg aatgatggta 120  
ttcctagaca aaaccgaatt gatggtatta aactcaacat tcctccattt aaaggaaaga 180  
atgateccga ggctacttg gaggggaga tgaaaataga gcatgttttc tcatgcaaca 240  
actatgagga ggaccaaagg gtgaagcttg ccgccacgga gttttccgac tatgctcttg 300  
tgtggtggaa caagctacaa aaggagagag caagatatga agaggcaatg gttgatacat 360  
ggacggagat gaaaaagatc atg 383

<210> 10296  
<211> 234  
<212> DNA  
<213> Glycine max

<400> 10296

tttccaacct ctatacatat tatgctcccg atatcaacat ccttggtaat acctatgacc 60  
attaaaatat caccatattt ttcgacttat aatttccatc gtatcattat attattatcc 120  
ccaatcgaaa ctctttatta aaacttatga ccattttaat ttcaccatat cttttcttgt 180  
tacatcttcg atcgtctatt tttatgattc tccttattct atcatccgaa ttaa 234

<210> 10297  
<211> 444  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10297

agcttataat atattgataa gctcgaaatt aatcatcgga aactctcgag aaattcaaat 60  
ggtcataact ttccacacgg atgtccgatt cgatcgata ggatgtcgag aggctcgaat 120

ttgaacaacg gaaggtcttg agaaattcaa atggtcataa cttttcacac agaggtcgga 180  
 tncnggcttt atttatatcg atacgctcga aattaaacat cggaaacact caagaaattc 240  
 aatgggtcat aacttttcac acggatgtcc gattcaggct tataatatat cgatacgtc 300  
 gaaattaaac atgaaaaact ctgcgaaaaa tcaaattggtc ataactnttc acacggatgt 360  
 ccgatccagg cgaatcacat atcgagacgc tcagattgag caacagaagc tcttgagaaa 420  
 tatcaatggt cattactttt caca 444

<210> 10298  
 <211> 478  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10298

agcttatatt ctcgaccaat ctcttttgtt ttcgtttgtc cgggatttaa tttattttgt 60  
 tcattcctat tctttggatt ttttttttgg tatagtatca tactgtacag ctgtgtacagg 120  
 aatgatgtaa atccttcttt aatatataaa atcctgtctt tgtctttttt aaaaaattac 180  
 tctctttgca tttttttccc atttgacgca tgttttctct gataattttc tgagttcaaa 240  
 ttttatttaa gacatgtttg gataaattat tttggaagga tttttaggaa taaaaataa 300  
 gaagacaaaa aaaaaccttt tttattgact aaaattaatt tatgcataaa caaatgtgta 360  
 gaaattntat catattaata tctctaaaaa atgatttttc atttatacat aaattaattt 420  
 taactcataa aaaattcttt cactttttct ttttattgtc tcttttagga gtatatct 478

<210> 10299  
 <211> 429  
 <212> DNA  
 <213> Glycine max  
  
 <400> 10299

agctcgaata tcttcatttg agttatgcaa acctatccaa agcatttcat tggctacaca 60  
 ctctccaate tcttctttt ttgaccacc tagatttgtc aggatgcaca ctccctcact 120  
 ataatgaacc atccttgtc aactttctcat ctctgcaaac tctccatctt tcttccacta 180  
 gtttttcccc tgccatttct tttgtcccca agtggatatt caaattgaaa aaacttgttt 240  
 ctcttcaatt atggggtaat gaaaaccaag gtccgattcc tggcgggtatt cgaaacctca 300

cacttcttca aaatcttgac ttgtctggaa attcattctc atcttctata cctgactgct 360  
 tatatgggct tcatcgcttc aagttcttca acctaaagga caaccacttg catgggacta 420  
 tatctgatg 429

<210> 10300  
 <211> 367  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10300

cttcttctgt tcagataggt acccttttga gcttggacta tgctcgaaat gcttttggtg 60  
 atgatgatgg aaacatggcc tccttggtca tgtataactg tcttattaga ggttatgctt 120  
 cagcagggtt gggtagccaa gcaatcttgc tttacgttca gatgctggtg atgggcattg 180  
 tgcttgacaa gtacactttc ctttttttgc tgagtgcgtg ttctaagatt ttggcgcttt 240  
 ctgagggtgt tcaagttcat ggggcggttc ttaagatggg tttggaggga gatatatattg 300  
 tcagcaactc tttgatacat ttctatgcgg agtgcgaggaa ggttgacttg ngacgaaagc 360  
 tgtttga 367

<210> 10301  
 <211> 456  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10301

agctgtatct atctgccag ccttacaatg actcatcaat taaagctgta tatgtaacaa 60  
 catttggtt ggaaccttca agcaacatca tctcaaatag tttatttgca tcaaacacct 120  
 ttcttgcttt caggtatgca tgaataagag aagtataagt caccacattt ggggtgcaat 180  
 tgtctcttaa catttcatca aaccaattgc gagcctgttg aataaggcca gctntgcaaa 240  
 agctatcaat taaaatagta tatgtatata cactgngaac aatgccattc tttttcattt 300  
 cttegaataa cananaagcc ttctctacct tggaggcatc acaaagaaaa ccaatcactt 360  
 tagaatacgt actatcatcg ggaacaaaaac ccttgctcat catttcgcat ataatctcaa 420  
 aggcntatc aaactttcca gctccacaga gacacc 456

<210> 10302  
 <211> 474  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10302

agcttgtgag agcncctatg gtgacctgtg actgaggctt gctggcgagg tctgagacga 60  
 aaccatgacca agtctccaat tttaaattca atatccctgc gcctttttatc tgctgagtgt 120  
 ttcataatta cttgggcctt cggaagcttc ttctttaagt ctgaaaaaat ggactcccta 180  
 ttagtcagaa actcgtcaac agcttccact tttaggttac ctgtaacata tgatggcaaa 240  
 tctggtggcc tccggacaaa ggtgacctcg aagggggaga caccagtctc tgaatggtgg 300  
 gaggtattgt angaccattc ggcccaggga aggaacttac cccacgaaga aggtttcttg 360  
 tggacaaaag ctgaaggta ctactcaagc acccggttca gcacctccgt ttggccgtct 420  
 gtttgggggt gataagctga gctcatctc agttgtgtgc cacttaaccg aaac 474

<210> 10303  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10303

tcagcttgca tacaagattc tccttgctg gcacttcana accttcttgt tgggtcatat 60  
 agatgtcttc ctctaaatcc ccatgcaaga atgcagtttt aacatctaac tgetccaagt 120  
 gaagattctc tgcagctact atgtcagaa taactctgat ggtagtcac tttacaactg 180  
 gagagaagat ctctgtgaaa tcaattcctt gtttctgctg aaacctttc accacaagtc 240  
 tcgccttgta tcttcttcta ccgtcagatt ctctcttttag cctatagacc cacctattct 300  
 gtaatgcctt ctttcttctt ggcaatttag ttaaagacca cgtcttattc ttctgaaggg 360  
 atgtcatctc atctttcatc gctagc 386

<210> 10304  
 <211> 445  
 <212> DNA  
 <213> Glycine max



<223>        unsure at all n locations  
 <400>        10304

```

agcttaacaa tcaatttcga gcgtctcggt atatacggga ctcaatcaga catccaagta   60
aaaagttatc atcgtttgaa ttggctcaga gcttcaacat tcaatttcga acgactcgat  120
atatgatggg actcaatcag acatccgagt aaaaagttat tgctctttga aatggctcag  180
agattccaca ttcaatttcg agcgtctcaa tatattacgg gactcaatca gacatccgag  240
aaaaaaatta ttgtcgtttg catatgctca aagggttcaac attcaatttc gagcgtcttg  300
atatattacg ggactctatc agacttccga gntaaaagta ttgtcgtttg aataggtctc  360
tagattcaac attcaatttc gagcgtctcg atatatgacg agactcaatc agacatccga  420
gtaaaaagtg attgtcgttt gaata                                           445
  
```

<210>        10305  
 <211>        469  
 <212>        DNA  
 <213>        Glycine max

<223>        unsure at all n locations  
 <400>        10305

```

agctngaagt aggaagtgtg gaatggtaga atcagtnntg aaaactgagg ggcaagctgg   60
gcatttgtct gctagaggaa ttatagcagc tactgctatc tgaacgtgct caaacgtctc  120
acttaacatt aatagcacgt tcaactactg gccaaaacaa attcgaccgt tgcttcacac  180
gtccctctac atpctcatt caaacttata ttttcgtggt aatctcgttt tcagcatacc  240
ccaacagctc tcagagattt acgaaatcat tccaaacgct ctgcttctcc atggctacct  300
caccaaaaga aacttcagct cctggttcac cctctgtacc atcatctcca tcatccacca  360
nagcaccatc aaaccaggaa cgacctgaat tcaatatcca gccatacag atgattcctg  420
gtcaagcccc tgttcttgaa naactgggtc ccaaacgaca acagggagt                469
  
```

<210>        10306  
 <211>        434  
 <212>        DNA  
 <213>        Glycine max

<223>        unsure at all n locations  
 <400>        10306

agcttgtgtc acactttcaa ctgccgaagc taaatatatt gccgcatgaa gttgttgtgc 60  
 tcaaagtctc tagatgaagc aacaactaca agactttaga gtaaacccttg atcacattcc 120  
 tctaaaatgg gacaacacaa gtgttatcaa tctaaccaaa aacctgtgca tgcattttag 180  
 gactaagcac atagaaatta ggcattattaa atgcatcaag catagaataa cattctgttt 240  
 gtacaagtat gtgattcaca ttgetattca tatcattttt tttgtttagt ttgtgtctta 300  
 gttattgatt tatgtgcata ctcatagtt tgtttgaata tcacatgttt ttcttagtaa 360  
 tttcgtgatt tctctttgtt ttaattgatt atgcttggtt ntaatcaatt tttgtatgat 420  
 atctgtttgg taag 484

<210> 10307  
 <211> 472  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10307

agcttgtgca tccaataccc tgatgaggat gtcccatatg ttcttaaaac tggactgant 60  
 ccattgcttc caaagtttca tggccttgca ggtgaagatc cgcacaaaca tctgaaagaa 120  
 ttcatattg tctgtccac catgaaaccc ccagatgtcc aacaggatca catatttctg 180  
 aaggcttttc ctcatcttt agagggagtg gcaaaagact ggttgtatta ccttgcacca 240  
 aggtccatca tcagttggga tgaccttaag ggagtattct tagaaaaaaa atttctgtct 300  
 tccaggacca cgaccatcag gaaggatata tcangtatta gacaactcag tggagagagc 360  
 ctatatgaat actgggagag attataaaat tatgtgccag ttgccttcac catcagattt 420  
 cygagcagct tctctccaa tatntttatg aaggactcag taatatggag ag 472

<210> 10308  
 <211> 177  
 <212> DNA  
 <213> Glycine max  
 <400> 10308

tctgtgaaca cctttccttc attaccaccc caatctccca tacatcttct atctatcttc 60  
 cagccacccc ttcacacca ataaattgcc tgcatatcat atgatcccca ccacaaacac 120  
 tctcattcac tcgatttgc ccacacttag aaacaaaaac tctgacgaa tcatatt 177

<210> 10309  
 <211> 459  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10309

```
agctngatgg tcagccagag ttgttcattc acattatttc tgacaagacc aacaacacat   60
tgtctatcat tgacaatggt attggcatga ctaaggctgg taagggtaaa tatttggtaa  120
gtctttgtga gattatcgcc aactgtgctt gttagttagt ctattttctc taatgcttgt  180
gcgtttgatg ttccagattt ggtcaataac ctcggtacta ttgcctctct tataacaatt  240
tttcactggc atgcaccatc tgaactgac aaacacaaa gataatatat atatatatat  300
atatatatat atatatatat atatatatat tacgaaaaaa tagttcacat gacaatatta  360
tggacaatat atattttaac taggaaatca tctatcatgt gtgtcatgat atgcagcgag  420
taaattntca caacctcatc aacctcaaaa ccacaatcc                               459
```

<210> 10310  
 <211> 469  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10310

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agctngaagt ctcatattgag cttatatgca tgttatttac acacaaaggg aaagggagag   60
ataactgacc aaatcttttc atggctattc ttccagaaga acgctcccct gatgtagttt  120
cgtttatagc ttggaccatc tcatttttgc tgacatatcc atccttggtc ttgtctaaga  180
atacaaatgt atcaaccaa gtctcaaatg tgccctccag ctttggcatc ccaattcgtg  240
atttctaggg aagtcattgga aaaaaatttg aagatgtagc aaaacatgga aattcaaggt  300
ttattgttat caatgcaagc atgatgaaat tctaggctgc cctgaagaaa tgcattgaaat  360
gtccataaaa taaaataaaa aaggaatgaa catatagaat tgaattgttc ataaagtaca  420
aacatcttct gaattataga aatgataggg gcataagctg canaaagac                               469
```

<210> 10311  
 <211> 474

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10311  
  
 agctntacga tcaacaaagt ntgtcaattc atctctaate ccttagacac tcattgggtg 60  
 gcagttaaac gtattctaag gtacctcaaa ggggccattt ctcatgggtct tcattctcaaa 120  
 cctacaattt caggaagacc tctctccatt cgagctctct gttatgttga ttgggtcttt 180  
 gatgttgatg atcatagatc aacatcacaa gtggcaattt atttgggccc taatttgggtg 240  
 tcttggtggt ccataaaaca agttgtgaca aggtcaagca ctggagcaga ataccgtagc 300  
 ttaactcagg ctacacataa aactttatga attcaaacac ttctcacaaa actgggagtt 360  
 cctttcaccg taccagtcatt tttttgtgat atccaaagtg ttgtagcact aacatataat 420  
 cctgttcttt gtactcaaac caagcacata tgagataatg ttttctatgt tcga 474

<210> 10312  
 <211> 265  
 <212> DNA  
 <213> Glycine max  
  
 <400> 10312  
  
 agcccaagaa cttgagttgc aacctagaca ggtagccgta ttgttccaaa accgtcgagc 60  
 cagatggaaa accaaacaat tggagagaga ttatgggtga ctcaaagcca attatgatgc 120  
 tcttaagctt aactttgaca ccttcgatca ggacaacgaa tccttacgaa agcaggtaga 180  
 ataatactcc ttccaaaata taaacaaatt tcgattatct atctgactta ttaatgatat 240  
 tttctccaaa ttatattgta tttaa 265

<210> 10313  
 <211> 427  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10313  
  
 agctntgaat nggtctctgg tcttaagata aactacaata agagaaaant tgggtgtttg 60  
 ggcaaatccg aggactgggtg taaggaggca gcattctctc tcaattgtag tcaaatggat 120  
 attccattgt cttaccttgg aattctctga ggggtcagct ctaaaaatag gtctgtgtgg 180

cagccattta ttagcaaatg cgaggctaaa cttacaaaat ggaagcaaag aaatctatca 240  
 atggggggta gaataaccct cattaattca gtcttaacag ccttaccat ttatttgcta 300  
 tccttcttca agatttcctaa gcttggtgtg caaaagatta catctatacc aaaggaattt 360  
 tgatggngca gcctccaaga ctccattaag attccttgng tgagggtggga catagtctgc 420  
 ctaccta 427

<210> 10314  
 <211> 471  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10314

agctnggact tcctgtgttg tgggaacctc tccttcttca ggtgtacca aacccaatca 60  
 cctgggtcaa gcacgacttt cttctgtgtt ttgttggtt gccttgcata gctcgcatth 120  
 ttcttttcaa ttggaacctt cacttgctca tgcaacttct tcacatactc agcttttagcc 180  
 tgtgcatect tatgcttaaa catagcaatg ttaggcatag gcaacaaatc aagaggagtc 240  
 aaaggattaa atccatacac tatctcaaat ggtgaacaat tagttgtgct atggacagcc 300  
 cgattataag caaactcaac atgaggcaaa caggcttccc aagatttaag atttttcttt 360  
 aaaacagtc taagcagtg gcctaaagtc ctattgacta cctcagtttg accatcagtt 420  
 ngtggtgac aagtagtaga aaacaacaat ntagtaccaa tcttacccca c 471

<210> 10315  
 <211> 361  
 <212> DNA  
 <213> Glycine max  
 <400> 10315

atgaagcaat caccaagtca atggtacaag agacttaatg agttcattgt ctctcacggg 60  
 tacatcagaa gtccctatga ctcatgtgtt tatcatagta aggtgaaaga cgattctcac 120  
 atctatctat tgctctatgg ggacgacatg ctcaaagcat ctcaaaattt gttggaaatt 180  
 cagaaggtga agtcactact caatagtga tttgagatga aagacttggg agttgttgaa 240  
 aagattttgg gcacggagat caagagggat aaagtccaaa agaagttctt tatgcataag 300

aaggaattca ttcaaaaagt actaactcat tctgggatgg catctgcaa gcaagtatgt 360  
a 361

<210> 10316  
<211> 327  
<212> DNA  
<213> Glycine max

<400> 10316

tatgctacat atatctacaa cagacctcct caagctcagc agctaaatca acaacaatag 60  
aacaattatg acctctccag caacaggtac aatcctgggt ggaggaatca tcccaacctt 120  
agatgggtcga atccttcaca acagcagcaa caacaacaac cttattttca aaatgctgct 180  
ggcctaagca gaccatacgt tcgtccacca atccagcagc aacaacagct acagccccag 240  
aaatagaaaa cagttgatgc tctctcgcaa ccttccttg aagaacttgt gatgcaaatg 300  
actatgcaaa acatgcagtt tcaacaa 327

<210> 10317  
<211> 462  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10317

agcttttggg aaaggaataa gaagaagaag atgttcanaa agatgttcaa aaagttatga 60  
aaaaagttat taaaattcaa gtcaaggtct tgcttttata gactcttcat gtctgggtcaa 120  
gaaaaccatt agaagagtta taaccttgaa aaaaacctga aaacaattgg aagagttata 180  
tctcttgact ttttattcaa aacttggtcat tggtaatcaa ttacccaaat catgtaatcg 240  
attacacaaa gcattttatg aaaagatatg actcttcaca attgaatttg aatttcaata 300  
ttcagataca ctggtaatcg attaccaata tattgtaate gattacacca tttaaaaatt 360  
aattggaacg ttgcaaatc agttaanaac ttttgaaatc aaactttgcc actgggtaac 420  
gattacaggt aattggtaat cgattaccag agaataaaaa ct 462

<210> 10318  
<211> 363  
<212> DNA  
<213> Glycine max

<400> 10318

tctgtccctg agatactggg tcccagaaga caacatggag tgtagattgc tgaataccct 60

agccctgcta caattcctat ggaagtatac acggagatgg acaagataat ccgcggtatt 120

gtgagtagca ttctgaatga tgcttctgtg cctgatgctg agaaagatgt tccaacatct 180

tccaccccag atgtttctgt gcctgatgtc aataaagatg ttccaacatc ctccgctcca 240

aatgctgaag ccctcccttc acccagtga gaggaatcaa cagatgatga ggatcaagtc 300

tcagaggaga cccctgcacc aatggcacca gaacctgctc catgtaacct cattgacttg 360

gaa 363

<210> 10319

<211> 467

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10319

caagctttgg canaggaaga ggagaggaag aagttcaaaa naatgttcaa agagattcaa 60

aggttgtaaa agtatatatg aaaagttata tcaagttttt aaaatgcaag tcaaggctct 120

gcttttatag actcttcatg tcaggtcaag aaaaccattg gaagagttat aatcttgaga 180

aaatcttgag aaaaccattg gaagagttac atctcttgat ttttattcaa aacttgctac 240

tggtaatcga ttaccagaac catgtaatcg attacacaaa gcattttatg aaaagatgtg 300

actcttcaca attgaatttg aatttcaacg ttcagataca ccggtaatcg attaccaata 360

tattataatc tattaaacca tttaaaaatc aattggaaca ttgcaaattc agttaaaagc 420

tttngaaatc aaactttgcc acttggtaat cgatacagga aactggg 467

<210> 10320

<211> 394

<212> DNA

<213> Glycine max

<400> 10320

ctcagcttaa gaataatggc ctcagcaaac ttcttattcc cagaaggaaa ctctataaat 60

aggcctccta tttttaatgg ggagggttac cactactgga aaactcgaat gcaaattttc 120

attgaggcaa tagacttaaa catttgagaa gccatagaag ttggacctta tgtaccacc 180  
 atggtggctg gtaatacaac aatagagaaa catagagaag agtgggtctga agaagaaga 240  
 agattagtac aatacaattt aaaggctaaa aacatcatta cttctgcctt aggaatggat 300  
 gaatatttta ggggtgtcaa ttgtaagagt gctaaggata tgtgggacac tctacaagtt 360  
 acacatgagg gaacaactga tgtcaaaaga tcag 394

<210> 10321  
 <211> 480  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10321

agcttgccata attaacctan aattgagaga gaatgattat taaacacata aaacgaaaat 60  
 actaagtatt tattaccttt acttaacaga aaatacttat aacattacaa aataaccata 120  
 aattgggaga gtttgatata atttatacaa gttttataca caaaagttag tcgtttttctc 180  
 cgactaacac ttatgggtata ttccctagtac tcaaaacttg ggatgaatca taagaatgtg 240  
 ttaaggaggt gttgatgatg agttaccaac ttttaattaa aaattgaaat ttttaactaat 300  
 ttaatagttt ttttttttgc tttaatcata tatgttttta tcttttttct ttagttcatt 360  
 ctatcaattt taaaaccatt agaaattgta atttaattnt ttaaatcaat actgaagaat 420  
 ttaaaaacta tcataaatca tttntaaaaa aattcaaatg tcaccttgac acttaataga 480

<210> 10322  
 <211> 342  
 <212> DNA  
 <213> Glycine max

<400> 10322

gcttaacatt caatgtctat cgttccgata tattacggga ctctatcgaa catccgagta 60  
 aaaatatatt gggtgttgaa tttgctcaga gattcgggtct tcaatttcga gcgcttcgat 120  
 atattactgg actcaattga acatacgagt aaaaacttat tgtcgttgaa tattttgtca 180  
 gagcttcggt attcaatttc gagcgtctcg atatattacg ggactgaatc agacattcga 240  
 gtaaaaagtt atcgtccgtt gaatttgcac agaacttcgg attccattct gagcaactcg 300  
 agtatattac gtgactcaat tagacattcg agtaacaagt ta 342



<210> 10323  
 <211> 469  
 <212> DNA  
 <213> Glycine max

<400> 10323

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agcttggtta ccccatgttg taattgctta caatagagct gttcatagca ccactaattg 60
ttctcctttt gaagttgttt atggttttaa cccactaact cctcttgatc ttttgcctat 120
gcctaattgtt tctgttttta agcataaaga aggtcaagca aaggcggact atgtgaagaa 180
gttctcatgag agagtcaaag atcaaatgga gaggaaaaat aaaagctatg ctaaacaagc 240
caacaaaggg agaaagaagg ttgtcttcga acccggagat tgtgtttggg tgcacatgag 300
aaaagaaagg tttccggaac aaaggaaatc aaagcttcaa ccaaggtgag atggaccatt 360
tcaagtgctt gaaagaatca atgacaatgc ttacaaagtt gagctgcca gtgagtataa 420
tgtagttcc accctcaatg tctctgattt atctcttttt gatgcagat 469
```

<210> 10324  
 <211> 468  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10324

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agcttcaaca tcagaccact tccagggtgc tggaactact tcacatggac ttgatggggc 60
ctatgcaagt tgaaagcctt ggaggaaaaga ggtatgccta tgttgttgat gatgatttct 120
ccagatttac ctgngtcaac tttatcagag agaaatcaga cacctttgaa gtattcaaag 180
agttgagtcc aagacttcaa agagaaaaag actgtgtcat caagagaatt aggagtgacc 240
atggcagaga gtttgaaaac agcaagtta ctgaattctg cacatctgaa ggcacacttc 300
atgagttctc tgcagccatc acaccacaac aaaatggcat agttgaaagg aaaaacagga 360
ctttgcaaga agctgctagg gtcatgcttc atgccaaga acttcctat aatttctggg 420
ctgaagccat gaacacagca tgctatatcc acaacagagt cacactta 468
```

<210> 10325  
 <211> 338  
 <212> DNA

<213> Glycine max  
 <400> 10325

cacacctctc taatagctaa gttcacctca tttagatgag aagctagagc ttagctacac 60  
 accccctata atagctaagc tcacccatat gccaaaaaac atgaaaatac aaaaaaagtc 120  
 cctactacaa agactactca aaatgccccg aaatacaagg ctaaaaccct atactactag 180  
 aatggccaaa atacaaggcc aaaacaaagg aaaaacctat tctaataattt acaagataa 240  
 gcgagctcat acttagccca tggactcgaa atctaccata aggctcatga gaaacctatg 300  
 gccttcctt ggatctctag cccaatctac ttggagtc 338

<210> 10326  
 <211> 263  
 <212> DNA  
 <213> Glycine max  
 <400> 10326

tcggatagcc gagcaaaatg ttattgacgt ctgaatatgc tcagagctgc ggtattcaat 60  
 ttcgagcgtc tcgatatatt aagggaactga atcagacatt cgagtaaaaa gttatggctg 120  
 tttgaatttg ctcagaactt ggggtattcca ttatgagcaa ctcgatatat tacgggagct 180  
 caatagacat tcgagtaaca agttatcgtc ctttgaatgt ggtcagagct tctatgatca 240  
 atttcgagcg aattaatata tta 263

<210> 10327  
 <211> 351  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10327

tagagcaatt cccttatgtt atcaaacata aaaagggaaa aggtaatat gtagccgatg 60  
 ctctttctcg gcgtcatgca ttactttcta tgcttgaaac aaaattgatt ggtcttgaat 120  
 gtttgaaaag catgtatgaa aatgatgaaa cttttggaga aattttaaaa aattgtgaaa 180  
 aattttcaga aaatggtttc tttagacatg aaggctntct tttcaaagaa aacaaattgt 240  
 gtgtgcctaa atgttctact agaaatttgc ttgtttctga agcacatgaa ngatgtttaa 300  
 tggggcattt tgggggtccaa aagactctat aaacattaca agaacatttt t 351

<210> 10328  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10328

agcttcttca agccaaaact tgaatgatta gaaatgaaac tattatttcc ataactaagc 60  
 anttggttga actgccaatc tgtctgtata cccaacacaa atgggttctga acctgagtta 120  
 tcttgaaaat agaaaacatg cttctgatgc cgctgaaccc atatctttac actgcattca 180  
 tcattttcgt gtagctcatg tgaagaatta cgaactgtcc ttcccatggt acgcacatca 240  
 ttctgagtga gaaaatcatc acggttttgg gggccacctt gcttctgcat cccctctgca 300  
 tgggtctgga ttatcttgct caacgatatt ccaacataaa gcatagacat cactttctgg 360  
 cgtaactcat ccgaaattcg cggagcatac atagct 396

<210> 10329  
 <211> 334  
 <212> DNA  
 <213> Glycine max

<400> 10329

tgatgcctaa aatgtctttt cttatggcat tggctctaga tgtgttgaat aatttttcca 60  
 agaacacctt tttaaggcca tcccaactga aaatggacct gggagcaaag tagtatagcc 120  
 aatcttttgc cactccctcc aaagaatgaa gaaaagcctt tagaaatata tgatcttcc 180  
 ggacatcaag gggcttcatg atggaacaaa caatatggaa ctctttaaga tgcttataag 240  
 gatcttcacc tgcaagacca tggaacttgg gcaacaaatg tattagtctt gttttgagaa 300  
 catatggaac accctcatca ggatattgaa tgca 334

<210> 10330  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<400> 10330

gctattacgt gaccttagaa tactctcgct tctctgatgc ctatgtgtgg accctcaagt 60

gcaatcctcc attctccact tttttcggaa ccccatgaat gtcattgcct agcgctatcc 120  
 atgtgtcctc cacttcgag tctggagccc cacgaatgtc attgcctagc actgttctgt 180  
 aattctccat tctccacttt tattctgagc cccatgaatg tcattgccta gcgctgttca 240  
 tgtgtcctcc accttcaagt ttggagctat gcttcattat tgccctaagtg tggacctctc 300  
 atagcaatcc tccattctcc actttttctc gagcccatg aatgtcattg cctaccgctg 360  
 ttcattgtgt 369

<210> 10331  
 <211> 274  
 <212> DNA  
 <213> Glycine max

<400> 10331  
 aagctggagt tgctgcacat gatgtccaac gttatgtcaa ggaataagat ccggctgcac 60  
 aatgtacaag gcaagataaa atggcaaagt aagaattgaa gttgcaggat ccacgatgtc 120  
 ggatacaatg tcttgacatc ctgcccagaga atactggagt tgctgtacaa tgcaagataa 180  
 aagtcaagtg cagaagtgaa gctgcaagat ccacgatgtc ggacacgatg tcttgacatc 240  
 cggcccgata atactggaca tataaatctg gtat 274

<210> 10332  
 <211> 304  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10332

cgcttaagaa aagagctntg aggggttatgt tctcaacaat tatttaataa tctcgaaact 60  
 gtttatccat atatcttcat tctgatttgt agtttattga ctctgttctg atgactatca 120  
 tgtgaacagg tgattggaga gtttttgtct ttaaaaaaag ctgctggaat aaaaaaagga 180  
 ttccagctaa tggatacaag caataaaggc aagactaaca ttgatgaact gcgagtaggg 240  
 gtgcataaac tangtcacca natatctgat ggggatgttc aaatacttat ggatgctgtg 300  
 agta 304

<210> 10333  
 <211> 390

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10333

ttgagccaat tcaaacgaca ataactttnt acatggatgt ctgattgagt cctgtcatat 60  
atcgagacgc tcgaaattga atgttgaatc tctgagccaa tccaaacgac aataacttat 120  
tactcggatg tctgattgtg tcccgttaata taacgagact ctcaaaattg aatgttgaaa 180  
ctctgagcta attcatacga caataacttt ttactcggat gtttgattga gtcctgtcat 240  
acatcgagac gctccaaatt gaatgttgaa gctttgagcc aattcaaacy acaataactn 300  
tttactcgga tgtctgaatg actctcgtca catatcgaga cgctcgaaat tgaatgttga 360  
agctctgagc caattcaacy acaataactt 390

<210> 10334  
<211> 406  
<212> DNA  
<213> Glycine max

<400> 10334

agcttcaaca ttcaatctcg agcgtctcta tatatgacag gactcaatca aacatccgag 60  
aaaaaagtta atgtcgtttg aatttgtcga gaggttcaac attcaatttc gagcgtctcg 120  
ttatattaca ggactcaatc agacatccga gtaaaaagat attgtcacct gaattggctc 180  
agagcttcaa cattcaattt cgagcgtctc gatatatgac gggactcaat cagacatccg 240  
agtaaaaagt tattgtcgtt tgaatttgct cagagcttca acattcaatt tcgagcgtct 300  
cgatgtatga cgggactcaa tcagacatcc gagtaaaaag ttattggcgt ttgaatttgc 360  
tcagagcttc aacatttaat ttcgagcgtc tcgatatatt acgaga 406

<210> 10335  
<211> 434  
<212> DNA  
<213> Glycine max

<400> 10335

agcttaacta atcaaatggg acaattggct acacagttaa atcaacagca gccccagaat 60  
tctgacagat taccttctca atctgtctag aatcccaaaa atgggagttc cattacattg 120

agatcgggaa agcaatgtca aggacctcaa ccagcaacat ctctctcadc tgcaaatgaa 180  
 cctgcccaac ctactctac tccagaaaaa gatgatgaca aaaatttaaa gagtaagtta 240  
 cctaacaatt tctatgaagg tgaatcttcc actggttaatt ctgatttaca aaagcagcat 300  
 atccctcttc cattccctcc aagagcaatt tccaacaaaa aaatggaaga ggcggagaag 360  
 gagatcttgg aaacatttag aaaagtagag gtaaacatac ctctgctgga tgcaataaag 420  
 caaattccaa gata 434

<210> 10336  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<400> 10336  
 tcatctttgt cctcaaggcc tcatgtatac tcgtccaaat cgcgaagtga accttggatc 60  
 cctgtcagat acaatactag aaggaattcc atgcaacctt actacttcc tgaagtacaa 120  
 ctccactagc ttttccatcc tatacttcat attcacgga ataaaaatgag cagatttggc 180  
 gagtcgatct actatgaccc acacggcadc atgccacga ctagtcttgg gtaaaactaga 240  
 taaaaaatcc atagatatgc tctccattt ccattccgga atctccaatg gcttcaattc 300  
 tcccgatggc cgtcgggtgc caaccttagc cttttgacat gtcaaacatc ttgctacata 360  
 ttccggtaca tctttcttca tgcctatcca ccaaaaaact ctctcaaatc ttggacatct 420  
 tatcattcct 430

<210> 10337  
 <211> 373  
 <212> DNA  
 <213> Glycine max

<400> 10337  
 tactcggatg tctgattgag tcccgaata taacgagacg ctcgaaattg aatgtttaag 60  
 ctctgagcca attctaacga taataactat ttactcggat gtccgattga gtctcgtaat 120  
 atatcgacac gctcgaaatt gaatgttgaa gctctaagcc tattcaaacg acaataacgt 180  
 ttctactcga tgctcgaatc agtgacgtaa tatatcgga cgtcggaaat tgaatgttga 240  
 acctctgagc caactcaaac gacaataact ttttactcgg atgtctgatt gagtcccgta 300

ttatatcgag acgctcgaaa ttgaatggtg aacctctgag ccaattcaaa cgacaataac 360  
 tttttactcg gat 373

<210> 10338  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10338

agctttagg ccttgtatct tcttcatcaa tggagtcctn tgcttcttga agatcaatgg 60  
 cagcaaaatg aaataggttg aaaggtgatt ggagacgcca cttcaaggag aagatgagtc 120  
 aagaacaagc tcaccaccat aggaagccat ggataagagc ttgaaggtag gaaaagatga 180  
 gtggaaagag agggagagag gggaggcatg aaatttatgt ctgaaataag gtcgtgaaatt 240  
 tgaagtgtaa ttctcaaatg atcaaagttg aaaaatacac acacaaggcc tctatttata 300  
 gcttaagtgt cacacaaaaa tggaggggaa attgaatttc tattcaaatc tcacttgaa 360  
 ntgaatttat ggagccaaat gtggagccaa aatttcacta attatgatta g 411

<210> 10339  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<400> 10339

tagctttatt aaaaatgata ataaaaaatt aaaaaataac atttaaaatg actaagtga 60  
 taaaattaat atcaatttat tttttgcttt atcttttaca actattttaca ttcattttat 120  
 caaaaaaatt atgttgtgcg acaagatcta tttttttatg ggagtaaaaa aatattttatt 180  
 ctatatattc aattaaaaat atttagaaca tggtatgaac taaataacat gtatgaatta 240  
 aactcaaaat tcaaaagata ggттаagaat gacaataata catgaacaaa tatatctaga 300  
 attcaatcaa aaaaataaaa attcaacaca gacttagaac ataatatgac aattattatg 360  
 actaaacatg aactctagac aacatggatt aagtgaatta cacttagatt tt 412

<210> 10340  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<400> 10340

tggtaccaac ccgaatgtta cctatgatag caccatagtg catgtcagca tatggctcct 60  
ctccagtc aa gagttccac atcacatcac caaatgaaaa cacatcaacc taaaatgaca 120  
aataatcaaaa caaaagcctc aaacttacat agtgacaaaa tatcaaggta ccattaacac 180  
atcaacaatt cagcagttcc ggagccatcc atggtagagt tcctctcacc accagaaatc 240  
agcgtctgac attttccttt ggacagaccc aagtcgcaa cctgatatca gatgcaaaag 300  
tgtaaaaggt aaagaaacta ctgaaggatc aactaatcaa ttgtccgtg ctacaagtag 360  
agttgtgctg actagaaagc aagtattgat gatcaaaaat catttagcag aa 412

<210> 10341

<211> 394

<212> DNA

<213> Glycine max

<400> 10341

agcttttgac ctcccaaaca gtgccttgta attccacaga tgaagaaatg ttgttcatat 60  
ttgttgaggg tcactctcgc aggtggagtg gtgaaagtg caataggaga ggctgagctg 120  
caagcatcga agttggcctt tgtaacctcc tctacgttgt gtgtatttga tgcgtagttg 180  
aacactgcaa aacacaccaa tgatttagtc caattgatcc caagctttta aacaattcaa 240  
gtagtttatt ttgtacgatg tgagacttac caaggacgtc tccaacctg aagtttttgc 300  
cagaggccca agctgtgtaa aaggaagcgt tgccaggaac aatccagcca gcggtttctc 360  
caacaatgaa agtagctggt tcagaggatg gacc 394

<210> 10342

<211> 426

<212> DNA

<213> Glycine max

<400> 10342

tcgtaccggg gatccttagt ggcaccttcg gcatgcaagc ttgttagagc ctagtattct 60  
ttgtcctacc aatccattgt tggctttgta catatcaaac aaaattgttg tttgtttgca 120  
caatgactaa ctcataatca tcttacagac aaatatgtaa ttttatcact tagtcttttc 180  
tctctgatgc aatcctaccc cccaaggcat tgataaaaga ctccaagaag attgggtcag 240



agatgcagga gaagggcccta gggttctgat gagccttagg atagattttg agctcatggg 300  
 ctaaatatga gcccaacttat ctttgtacat attatatttg agtttcatta tttttgggcc 360  
 ttgtatttag ggctccatag tgtagggagt gtatcctagt aatgtagaat ttttcagccc 420  
 ttgtat 426

<210> 10343  
 <211> 301  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10343

taatattatg gtcgntatca cttatccctg gactgggtgag tacttttcaga agctatttta 60  
 gatgcataat ttatagcgat aaacttgcag tgcacaaaat cgccatgttt cattaacttg 120  
 gatattttta tgatttttagt ttactatgtg ggaccaaagtg gatggaaaaa actgtctggt 180  
 gatgatgttg gggaaactta ttaccattac taccagttta cccaagcac cgtggaacaa 240  
 gaaatggttg aggetactgg tgcttgatga agtaactcgt ggatgtcttt ttaagttttc 300  
 t 301

<210> 10344  
 <211> 316  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10344

tagcttgaat cggacctcag tgtgaaaatg tttgaccatt tcaatttttc gagagctttc 60  
 gttgttcaat gtcgagcatc tcgacatgtt atgcgctcga atcgagacac cgtgtgaaaa 120  
 gttatgacca tttgagtttc tcgagagctt ccgtgggttca atttcgagca tctcgtcata 180  
 ttatgtgccc gaatctgacc ttctgttgaa aaagtatgac catntgaatt tctcgagagc 240  
 ttccgatgtt taatttcgag cgtctcaata tattgtaagc ctgaatcgga gctcagtggt 300  
 aaaaagtatg accatt 316

<210> 10345  
 <211> 247

<212> DNA  
 <213> Glycine max

<400> 10345

actcgtgcga gtccttttacg acgaaactat ggcgagtttg gctccacgac acaatggggg 60  
 tgggtgtgagg gtactccacc atttcaaacg tctttcttcat gaacggaggg gggcccacct 120  
 cgtgcaaccc tatcatcggg ttggggaag tcgactacta ctatgaccac ttacgggagc 180  
 cgtcatccat ctgttctttc actgcgtgag ccgtcgtcac tcccagagtc ttgctctcgc 240  
 tcaaaac 247

<210> 10346  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<400> 10346

agcttgtaat tgattacata agtcttggt tcaattacca gaggagattt tcagattatt 60  
 atttccaagg gtcacaactt ttcaaatggg ttttcatggt ccatcaaagg tatatttata 120  
 tgtgacttgg aacatgaatt tgcttagagt ttttcagaac aaaaagtctt atcctctcaa 180  
 aaagcaaat cattttatcc tcttaagaat tccttgcca atacacttgc aattcaataa 240  
 ggaattaatt gagtgttaa attgttcaat ctatctcttt caagagagat ttcttcttct 300  
 ctactttcta tttctaaaag gggattaaga gaccaagggt ctctcgttgt aaagaaatct 360  
 gaacacaaaa aaaggattgt ccttgtgtgg ttcagaactg caaggtagtg gaactctcaa 420  
 gcggg 425

<210> 10347  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<400> 10347

tccgcttatt agtgcacagc tccttcaaga atttagcata tcttggaatt tgctttattg 60  
 catccagcag aggtatgttt acctctactt ttttaaagt ttcttagatc tctttctctg 120  
 cctcttccat tttttgttg ggaactgctc ttggaggga tgcaagaggg atatgttgct 180  
 tctacaaatc aaaattacca gtggaagatt cacctgcacg gaaattgtta ggtaacttac 240

tcttttaaatt tttgtcatca tctttttctg gagtatagtg aagttgggca agtgcatttg 300  
 cggatgatga aggtgctact gggttgaggtc cttgacactg ctttcgcgac ctcaatgaaa 360  
 tggcactcac atttttggga ttctggacag attgagaagg cagcttggtca gaattctatg 420  
 act 423

<210> 10348  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10348

agctntaacc gtctgagatc tttgccttat cacattggag ggtacatcct ttgtggtata 60  
 agtagagggg acatctactt ggggttgact gagaacaaga gagggtacat ctcttggtgga 120  
 tcagttctag tggaggggtac atccactagg gtttcgaaga gaacaaggga gggtagatcc 180  
 cttgtggatc tttgcttgta aaaggatttt tacaaggttg aaagaaatct caaggaccgc 240  
 angtctcttg gggattggat gtaggcattg gttgttgccg aaccagtata aaaactcttg 300  
 tgtgtttgtc tccttcttcc ctactctttt aatttttgcg gtgcatttaa ttctcgcttt 360  
 tactttctgg taagtctctc ttatactcct tattctctta acaactt 407

<210> 10349  
 <211> 355  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10349

tttgttaacta cctcatgcac tcctctaattg actatttcat catttctggc actaaactgc 60  
 tgggagttgg aggccatctt ctcaattaaa tntctggctt caacaagagt catgtctcca 120  
 aaggctccac cactggcagc atctatcata cttctctcca tattactgag tcttccataa 180  
 aaatattgga gaagaaactg ttctgaaatc tgatggtggg ggcaactggc acatagtctc 240  
 ttaaattctc ccaggtactc atacaggctc tctacactga gttgtctaata acctgagata 300  
 tacttccctga tggtctgtgt ccttgaagca nggaaaatat tttctaataa tactc 355

<210> 10350  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<400> 10350

gcattgagaa gaatattagc tctttgtgat cttgacatgg atgaagccct taatgtctca 60  
 gaactaaatg agtttcaggc ttttgttgat ttggattct tttaaatctc ctttttttta 120  
 tttaatatgc tgtgaatatt tattgttttc aagtgtggcc tatttattca aaatgtgcaa 180  
 atatatcaac aggttagatg cgtaaagca ccattgctat cctctgaaat agcatgagtc 240  
 acaagggttg tacagcagaa agtacctgaa ggattcaact cacatggctc tacttgttct 300  
 ggatttattt atgtccacaa tatgttcttc aaaagaaggc gtccaaagac attatgggct 360  
 gttctaagat accttggata tgataataat ttgcaactca tggat 405

<210> 10351  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<400> 10351

agcttgtagg gttaaagtct cacgattgtc acatgctcat gcaacaattg ttaaccgtgg 60  
 ctataagaga catcttgcca aacaaagtca agttagccat aactcacctg tgctttttct 120  
 tcaatgctat atgtagcaaa gtcattgatc ctgtcaagtt tgatgagttg gaaaatgagg 180  
 ccgcaattat actgtgccag ttggagatgt attttcccc tgctttcttt gacatcatga 240  
 ttcacttgat tgtgcatcta gtcagagaaa tcaaagtgtg tggctctatt tatctacggt 300  
 ggatgtaccc ggttgagcta tacatgaaga tcttaaaagg gtatacaaag aatctttatc 360  
 gtccagaagc atctattgtt ga 382

<210> 10352  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<400> 10352

tgctacccca tgcaagctcc taatatctcc cacacttttt atgggtgggc attcttggat 60  
 gtccttgatt ttctcagggc ccaattggac cccatttcta ccaactacaa aacctaagaa 120

aactatatta tctacacaaa aggtacactt ctatatattt gcatagaagg tgtttttctt 180  
aaggactgaa agaactttcc tgagatgtcc taagtgatca tctaggctcc tactgtatac 240  
taaaatatca tcaaaataaa caacgacaaa tctacctatg aaatccttta agacatgatg 300  
cataagcctc ataaagggtc ttgggtgcatt agtgagccca aaaggcatca ctagccattc 360  
atacaaacca aacttgggtc tgaaagcagt ttccactca tca 403

<210> 10353  
<211> 354  
<212> DNA  
<213> Glycine max

<400> 10353  
tcacctcatt gagaattaca attccatgaa ggatgtgtct gtctttgatg aaggctgggt 60  
gtctctcacc aataagggtc gatataacat tcttcaatct atttgctaact aacttagcta 120  
tcaccttgta catacaccca atcaaagaga ttggtctgta atcatcaaag gtctgagggt 180  
gtttaacttt gggaattagg gccaaagagg aagcattact gcctctaagg aagcagccat 240  
gcacatgaaa ttctgtctata aatcttctaa agtcagtttt caacactccc caaaattctt 300  
taatgaaat gaagttgaaa ccatcgggtc cagggcattt gtcccaccac aact 354

<210> 10354  
<211> 186  
<212> DNA  
<213> Glycine max

<400> 10354  
tctctacaat tgcacacct ctcaatgagc tggatgaataa gaatgaggca ttacctggg 60  
gtgaaaaaca aaagcaagcc ttgtctttgc tcaaagaaaa gcttactaaa gcacctgggc 120  
tagctctatc tgacttttctc ataacttttg agctagaatg tgatgcctct ggagtgggag 180  
ttggag 186

<210> 10355  
<211> 305  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 10355  
agcttccggtt attcaatctc tagcgtctct atatattatt tcaccgaatc agacatccga 60  
gtgaaatggt atgaccatcc gaatttgctg agagcttccg ttgtttaatt tcgagcgtct 120  
agatgagtta tgcaccgaa tccgacatct gtatgaagag gtatgaccat tcgaatttct 180  
cgacatcttc cgttggtcaa ttccgagcgt ctcgatatat tatgtncccg aatctgactt 240  
ctttgtgaaa agtttgacc attcgaattt ctggacagct tccgttgatc aatttcgagc 300  
gtctc 305

<210> 10356  
<211> 434  
<212> DNA  
<213> Glycine max

<400> 10356  
tacgcttgaa tgctctattc aatggagttg acaagaatat ctccagacta atcaacacat 60  
gtacagtggc caaggatgct tgggagatcc tgaaaaccac acatgaagga acctccaaag 120  
tgaagatgct cagattgcaa ctcttgcca caaaattcga aaatctgaag atgaaggagg 180  
aagaatgtat tcatgacttc cacatgaaca ttcttgaaat tgccaatgct tgcaactgct 240  
tgaggagag gatgacagat gaaaagctgg tgagaaagat cctcagatcc ttgcctaaga 300  
gatttgacat gaaagtcact gcaatagagg aggcccaaga catttgcaac atgagagtag 360  
atgagctcat tggttccctt caaacctttg agctatgact ctcgatagag gctgaaaaa 420  
gaagcagaac ttgg 434

<210> 10357  
<211> 343  
<212> DNA  
<213> Glycine max

<400> 10357  
cctattaaca caccgggcca tgaatcacat atctgaacct gtcagcagtc tctgtggttt 60  
atgcttcttt ggcgaccacc acagatacct ttgectcttt gtgcggcgaa ttgaagcaat 120  
cgaacagctc gaagcttatg ctgccaaact ctacaataga cctectcaac cgagcatgga 180  
aatcagtcac aacagaacag aacagtgatg acctctccag caacaggtac aatctcgggt 240

ggaggaatca tcccgaactt agatggtcga atccgttgcc acagcaacaa caacaacaac 300  
atccttattt tcacaatact aatggcccaa gcataccata cgt 343

<210> 10358  
<211> 401  
<212> DNA  
<213> Glycine max

<400> 10358

agcttgcgaa ccataccact atccacgtat atgctagctc catcatatcc ttggcctcta 60  
actttttgaa tgataagatt atcatgagat agtattgaac aaactccttg ctaagagta 120  
gatgatgtac aatctatcac atgtgagata tctaaaaaat gttctaacat atcagcactt 180  
arcaacaaat ctaatattag gagtaatttg ttttcttcta gattcatcat gagcttcacc 240  
tacaattcac cagaattttg cattatcaat ctctttttga atttcatttt gcaacttctt 300  
agcaaagacg tgtagaattt ctttttgaat aatgggtgaa gtgtatcttg cattctaagg 360  
gacattttcc aagacaactt catctatttg cttattataa g 401

<210> 10359  
<211> 311  
<212> DNA  
<213> Glycine max

<400> 10359

actccgaggg ccgaatctgg cgaataatat agcgagacgc tcgacagtga acaactaaag 60  
ctctcgagaa attcaaattg tcatgactct tcaactcaggt atccgattca cgcgcataat 120  
atactaagac actcgaaatt gaacaacaga agctctcgag aaattcatat tgtgtgact 180  
cttcaactcag atgtccgac cagcgcgata atatatcggg acgctcgaca ttgaacaatg 240  
gaagctctca agacactgaa atggtcataa cgtttcacac agatgtctga ttcttgga 300  
taatatatcg a 311

<210> 10360  
<211> 329  
<212> DNA  
<213> Glycine max

<400> 10360

tcacccgtgg gtcaagaatc ttagcaattg aaagaatgac attatagtca ctccaatact 60  
 tgccaaactt ttccatcacc aacactgcca tattttgcaa tactggatca tcacacttca 120  
 gtgtttcccg caacaacat tcaattttcc atacttgcac gaagtattca ttggaagttg 180  
 gataagatgt acctaaaaaa aattcaaata agataattaa actataaata taaatctgaa 240  
 actatttatt ataattatga aatttgaaaa aatataacctg aaatcaaatt agtcatatta 300  
 taaaatggct tcaaaaattc acacaattt 329

<210> 10361  
 <211> 316  
 <212> DNA  
 <213> Glycine max

<400> 10361  
 taaacattca atttcgagcc tctcgatata ttacgggact caatcaaaca tccgaaaaaa 60  
 acgttattgt cgtttgaatt cgcacagagg ttcaacattc aatttcgagc gtctcgatat 120  
 attacgggac tcaatcagac atccgagtaa aacgttattg tcgtttgaat tggctcagag 180  
 gttcaacatt caatttcgag cgtctcgata taatacggga ctcaatcaga catccgagta 240  
 aaaagtcatt gtctgttgaa taggctctga ggttcaacat tcaatttcga gcgtctcgat 300  
 atattacggg actcaa 316

<210> 10362  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10362

agcttccatc aggatgtctt attgagtccc gtaatatatc tagacgctcg aaattgaatg 60  
 ttgaacctct gagcatattc aaacgacaat aactgtttac tcggatgtct gattgagtcc 120  
 cgtaatatat cgagacgctc taaattgaat gttgaacctc ttagccaatt caaacgacaa 180  
 taactttnta atcgggatgc tgattgagtc ccgtaaatat atcgagaccc tctaaattga 240  
 atgttgaagc tctgagccaa ttcaaagac aataactttt tactcggatg tctgattgag 300  
 tcccgttaata taacgagacg ctcgaaattg atatgtgtaa ctctgagcca attcaaacga 360  
 caataactat ttacttcgat gtctgagtga gtcccgccat atatcg 406



<210> 10363  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10363

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agctnggctt tggccatcag aaccatctca ttctctactt catccatctt gcaacanata 60
ttccagtcaa gtgagtgttt ctctgcatca aacaaatcan atgtgatctt ccaatcatct 120
attcccattt ctagattacc ttcccccata tccaccacac aattggcagt tagcatgaag 180
ggacgaccca caatcagagg gatttcagca tctcttctaa tgtccatgat cacaaagtct 240
gtagggaaag tgaactgtcg caccttgacc aanacatctt caaccacgcc ataagggtct 300
gtaatggaat gatctgccaa caacaatgtc attcttgttg gcataatttc cagctctcca 360
attcttctgc acatggagag cgacatcaaa ttaatgctag ctcccacata atgaaagctt 420
tccaaactgac ac 432
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<210> 10364  
 <211> 332  
 <212> DNA  
 <213> Glycine max

<400> 10364

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tcctttacaa caaagagaag tgatgtaagc tccattggag cttgtaggcc taggatcttc 60
ttcattaatg gattccttta cttcttggaa gatgaatggc agcggaatgg tgaaaggaag 120
agagagagga ggcgccactt caaggagaag atgagtctag aagaagctca ccaccataag 180
aggccatgga taagagcttg gaggaagaag gagatgaatg aggggagagg gagagaagag 240
cacgaaattt tgtgctctaa atgagcttct aaatctgaat tttaatatct taatgatcaa 300
agttgaaaaa aatgcacaca catgacctct at 332
```

<210> 10365  
 <211> 325  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10365

agctggcctt gaatcagaaa nttgtaccag tcgcaagagt ctgtgggtta tgctcctctg 60  
 ctgaccacca tacagacctc tgcccttcca tgcaacaacc tggagcaatt gagcagcctg 120  
 aagcttatgc tgcatacatt tacaatagac ctctcaacc tcagcagcaa aatcaaccac 180  
 agcacaacaa ttatgacctc tctagcaaca gatacaacc tggatggagg aatcaccccta 240  
 atctcagatg gtctagccct caacaacaac aacagctact gtgccaagca gaccgtacat 300  
 ttcttcacgg atccaacaat agcaa 325

<210> 10366  
 <211> 325  
 <212> DNA  
 <213> Glycine max

<400> 10366  
 tatatgtttt ttagttgcct tgtaccatgc tcacctaata caaaggtcgg tattgatgtt 60  
 tatctagagc ctttgattga tgatttgag aagttatgga gtctgtttt gacacatgat 120  
 gtgtcaagga agcaaaattt gatgaggact attaatgact tccctactta tggcatgttg 180  
 tctggttggt gaactcatga taaatttttt tgtccgcatt gcatggagca taagaagttg 240  
 tttacattac aatatgagag gaaaagttgt tcatttgact cgcacgtag gttcttacct 300  
 agcattcatt catttaggac taaca 325

<210> 10367  
 <211> 330  
 <212> DNA  
 <213> Glycine max

<400> 10367  
 tatgctgcaa acatttataa tagacctcct cagcagcaaa accaacaaca acagaataat 60  
 tatgaccttt cgagcaatag atacaatcta gggttgagga atcatccaaa tatgagatgg 120  
 acaagtcctt cacaacaaca atagtttgc cctcctttcc agaattgtgc tggccaagc 180  
 aagccgtatg ttctcctcc aatacagcag cagcaacaac agtagtcaca acaagacaa 240  
 caagcaacta aggctcctcc tcaaaattcc ttagaagagt tagtgaggca aatgaccatc 300  
 cagaatatgc aatttcagca agagacaaga 330

<210> 10368  
 <211> 335  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10368

agccttttcc cttctctcgg agggagtggc aaaagaatgg ctatactacc tcgctcccat 60  
 gtccattntc agttgggatg accttaagag ggtgttcttg gagaaattat tccctgcac 120  
 taggaccact gccatcagaa aagacatttc aggcacacag caacttattg gagaaagctt 180  
 gtatgagtac tgtgaaagat tcaagaaatt gtgtgcaagc tgcctcacc accagatttc 240  
 tgagcaactc attcttcaat attctatga gggacttaac aacatggaga ggagtatgat 300  
 tgatgctgct agtggtggag ctctcggtga tatga 335

<210> 10369  
 <211> 340  
 <212> DNA  
 <213> Glycine max

<400> 10369

taataatcta tggcttgaaa caagcctccc gccaatggta tctaaagttt catgatgtca 60  
 tcacttcatt tgactttgaa gagaacatca tggatcaatg tatataccaa aaggtcagtg 120  
 agagtaagat ttgctttctg tgttaaactg ggatgacatt ttgcttgcaa ctaatgataa 180  
 gggtttgcta tatgaggatg aacaatttct ctggaagaac tttgatatga aggatatggg 240  
 agaggcatct catgtaattg gcattaagat ccatagggca agatctcgag gcattttggg 300  
 tttgtctcaa gagacttata ttaacaaagt tttagagaga 340

<210> 10370  
 <211> 327  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10370

agctnntaga tgccttanag ttttaaggct gaagttgaga aacaatgtgg aaaacaaatt 60  
 aagatcgtga gatcagatag aggtggggag tactatggta gatacacaga ggatggacaa 120  
 gcaccacgtt catttgcaaa ttntnttcaa gaacatggga ttgttgccca atacactatg 180

tctggttctc cggatcagaa tgggtggca gaacgaagaa atcaaaccctt attagacgtg 240  
 gtgagaagca tgaggagtaa tgtaaagctt tctcaatttt tgtggattga tgctcttaag 300  
 acggctgcgt atatattaaa ccgagtt 327

<210> 10371  
 <211> 333  
 <212> DNA  
 <213> Glycine max

<400> 10371  
 tgtagggtta aagtctcacg attgtcacgt gctcatgcaa caattgttag ccgtggctat 60  
 acgagacatc tttccaaaca aagtcaggtt agccataact cgctgtgct ttttcttcca 120  
 tgctatatgt agctaagtc ttagtcctgt gaagtttgat gagctggaaa atgaggccgc 180  
 aattatactg tgccagttgg agatgtattt tccccctgct ttctttgaca tcatgattca 240  
 cttgattgtg catctagtc gagaaatcaa atgttgggt ccagtttatt tacgggtgat 300  
 gtacccggtt gagcgatata tgaagattctt aaa 333

<210> 10372  
 <211> 336  
 <212> DNA  
 <213> Glycine max

<400> 10372  
 ttgagaaaat tcaaacgaca ataacttttt actcggatgt ctgattgagt cccgaaatat 60  
 atcgagacgc tcgaaattga ataccgaagc gctaagcaaa ttcaaacgac aaaaactttt 120  
 tactcggatg tctgattgag tcccgttaata tatcgaaaag ctcgaaatgtg aatgtagaag 180  
 ctctgagcaa attcaaaca caataacttt ttactcggat gtctgattga gtcccgaat 240  
 atatcgagat gctcgaaatg gaataccgaa gctcggagca aattcaaaca ataataactt 300  
 ttactcggga tgtccgattg agtcccgtaa tatatc 336

<210> 10373  
 <211> 331  
 <212> DNA  
 <213> Glycine max

<400> 10373

tcaacctaga ggagacgaac cattccaagt gttggagaag atcaacgaca atgcctacaa 60  
gattgacttg cctagtgaag ataagtgaag tgccacttcc aatgtgtctg atctatctct 120  
ttttgatgca gatggaggag ccttggaattt gaggacaaat ccttttcaag gagggagtga 180  
tgaggacata accaaggga aggaccatga agcacttgaa ggteccatga ccagaggcag 240  
acttaacaa gcccaacaca tcatagagac aaggctggtc atttgtatag ctgtcattga 300  
tgatgattga aagcccaagt ggagaaagat g 331

<210> 10374  
<211> 331  
<212> DNA  
<213> Glycine max

<400> 10374  
tctcagatcc agtcatggaa agacttggca actgccttca ttaggcaata ccaatacaac 60  
acggatatgg ctctgatcg aaaccaactt cagagcatga ccaagcggga acatgagtcc 120  
attaaagaat atgctcaaag gtggagagac ctageggccc aagtcgtccc gtcgatgact 180  
gaaagggaaa tgatcacgac tatggtatag acgttgccca cgttctacta tgagaagctg 240  
ataggatata tgccggctaa ctttgcagac ctctcttcg ccggagaaag aatcgagtcc 300  
ggactgagaa aaggcaagtt tgaatatgcc t 331

<210> 10375  
<211> 349  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10375

agcttcttat ccaaggagat tctnggtggt gaagctcctt ctctcttggc ttattcccta 60  
gtggatggtg tctccctctt ccacttctcc tttaccttcc gctgcatttc catggtgtaa 120  
aatcaccatt gaaggacctc attgaagctc anagatccag cctncataga agctccacaa 180  
gcaagcttcc atcattaagg ttctattatt tttgggcctt gtatttaggg ttcataatat 240  
aggtaaggta tctagaaat gtagaatttn taagcccttg tattntatgg cacctagact 300  
agcttttgta ttaggggtag ttctgaattt cacatgcatt aagtgaata 349

<210> 10376  
 <211> 330  
 <212> DNA  
 <213> Glycine max

<400> 10376

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tttcctttgg ttgctctgat aagctttcca aacgttagag agaaggagaa gagattgaag 60
ccttcattcc actgtctgca tgaaatgagt atttctccct ccttagacat tattttccac 120
atctcaacgg ttaaaatgtg cgggacttaa tttcaaacct ggtgtccaaa tttcacaatg 180
atccaacggt taatatgtcc aggattgtag ttttattggg acaagttttg ggtctccgct 240
ggaaatggaa aagctatgac gtgaaggga attctttcaa atcctagtgc tcaaattcca 300
accctgagaa tggttcagaaa tgagttccaa 330
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<210> 10377  
 <211> 305  
 <212> DNA  
 <213> Glycine max

<400> 10377

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ttgagacaat tcaaacgaca acaacttttt actcggatat ctgattgatt cccgttatat 60
aacgagacgc tcgaaattga atgtttaagc ttgatccaa ttcaaatgac aataaatttt 120
ttctcagatg tctgattgag tccaataata taacgagacg ctcgaaattg aatggtgaag 180
ctctaagcca attcaaacga caataacttt ttactatgat gtctgattgc gtaccgtaac 240
atatcgagac gctctaaatt gaatgttgaa gctctgagac aattgaaacg acaacaactt 300
tttac 305
```

<210> 10378  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10378

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agcttcaaca ttcaatgtca agcgtctcga tatattatgg gactcaatca cacatccgag 60
taaaaagtta ttgtcgtttg aattggctcg gagcttcaac attctaattc gaggggtctcg 120
atatattact aggactcaat ccgacatccg agataaaaat tattgtcggt cgaattggct 180
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cagagggttca acattcaatt ntgagcgtct cgatatgtta cgggactcta tcaacatccg 240  
 agtaaaaagc tattgtcgtt ttgaattgct cagagactca acattcaatt tctagggctct 300  
 cgatatatta cgggactcaa tcatacatcc gcagtaaaag ttatcgtcgc ttgaatatgc 360  
 tcagaagatc aacattctat ttcgagcgt 389

<210> 10379  
 <211> 338  
 <212> DNA  
 <213> Glycine max

<400> 10379

tettgaagtt ggaatgatat atgccatttc cgatagtcca tgggtaagcc ctgtgcaagt 60  
 agtccctaaa aagggtggaa taacactgat aaagaatgac aagaatgagc tgattccac 120  
 aaggaccatg accggttgga gaatgtgtat caattatcgc cttctcaaca aggcaacaag 180  
 gaaacaccat tttcctctcc cttcataga tcaaatactt gagagggttag ccggccaagc 240  
 cttctatttc tttcttgata gatactcaag gtataattaa attcttgta atccgaagga 300  
 tcaagagaaa acaaccttca attgccatt tggagtct 338

<210> 10380  
 <211> 333  
 <212> DNA  
 <213> Glycine max

<400> 10380

tgtgttaaga ggaagagtga tgtgattgat gtattcaaga aattcaaagt ttcagtggag 60  
 aaacagtgtg gaaaaaattt agagatatta agaacggatg gtgggggtga atatgtatct 120  
 gttgagtttg ctgaattttg tgagaaagaa ggcacacac atgaagtaac acctccatac 180  
 actcctcaac ataatggagt agttgagagg aagaatagaa ctttgttgaa catggtgagg 240  
 agcatgttaa agagcaagaa actacaaaaa tatttgggg gagaagctgt gaacattgct 300  
 gcatacatct tgagcagaag cccaactagg aaa 333

<210> 10381  
 <211> 333  
 <212> DNA  
 <213> Glycine max

<400> 10381

tctaaacttt atacaagaat gaagctctga taccacttgt tagacaagtg gctcagata 60

tcttaagaag ggggaggttg aattaagata ttacaaacta tttccccaat taaaattcta 120

tcaagttata aattccctta ataataaact tcttaaatat tgactcaaat agaacaattt 180

gaatatgaat ataaaacaat aataaataaa ggagtttaag ggaagagaaa gtgcaaaactc 240

agatttatac tgggtcgcc acacccttgt gctacgtcc agtccccaag caaccgcgtt 300

aagagttcca ccatcttgta aattcctttt aca 333

<210> 10382

<211> 326

<212> DNA

<213> Glycine max

<400> 10382

tctagaatta tggcctcacc aaactacttg tttcccgagg gaaattctat aaatagacct 60

cccactctta atggagtggtg ttaccattat tggaaaaccc gcatgcaaatt ttttatagag 120

gcaatagatt taaatatttg ggaagccata gaacaaggac cttatgttcc ctctataatg 180

gccggaagtg caacaatagg aaaacctaga gcagattgga ctgaggaaga aagaagatta 240

gtacaatata atttaaaggc caaaaatatt attacatctg ccctaggaat agatgaatac 300

tttaagggtt caaattgtaa aagtgc 326

<210> 10383

<211> 334

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10383

agcttctcga ttattatgca ccttaatctg acttccggtt ganaagttat gacaacttga 60

atttctggag agcttccgtt gtgcaatttc gagcgtcttg atatattatg cgcttgaatt 120

ggacttctgt gtcataagtt atgacatnt caatttctcg agagcttccg ttgttcaatt 180

tcaagcttct cgatatatta tgcacctgaa ttggacttcc gtgtgacaag ttatgacct 240

tctaatttct tgagagcatt cgggtgttcaa tttcgagcgt ctcgatatat tatgcactcg 300



aatcggactt gcgtgtgata agtatgacca ttg

334

<210> 10384  
<211> 327  
<212> DNA  
<213> Glycine max

<400> 10384

tcaagagatc gtcccttga caacattatt ggtgatatct caaaaggggt acaactaga 60  
cattctctta aagatttatg caataatatg acttttgtgt ctatgattga acctaaaaat 120  
ttagatgaag ccataataga tgatcattgg atagttgcta tgcaagaaga actaaatcag 180  
tttgagagaa acaatgtgcg ggaactagta gagaaacctg aaaactaccc catcatagga 240  
acaaaatggg tatttaggaa taagttagat gaacatggca taatcattag gaacaaggca 300  
agattacttg caaaaggata taatcaa 327

<210> 10385  
<211> 339  
<212> DNA  
<213> Glycine max

<400> 10385

ttaaaagatt ggctaagatt ttgttaaac ataagcactt agacaatgaa ggaaagctgg 60  
agttgctgca catgatgtcc aacgttatgt caaggaataa gatcgggctg cactatgcac 120  
aaggcaagat aaaatgtcaa atgaagaatt gaagctgcag gatccacgat gtcggataca 180  
atgtccagga catcctgccc gagaatactg gagttgctgt acaatgcaag ataaaagtca 240  
agtagtgaag ctgcaggatc cacgatgtcg gatacagatgt cctgacatct ggccccgataa 300  
tactggacat ataattctgt tatatcttta acagattat 339

<210> 10386  
<211> 328  
<212> DNA  
<213> Glycine max

<400> 10386

tccagaaatc atctctttaa cgacattatt ggtgatatct ctaaagggat acaactaga 60  
cactctctca aagatttatg caataacatg gaatttgttt ctatgataga acctaaaaac 120

ttaaaagaag ccataataga tgatcaatgg atagttgcta tgcaagaaga gttaaatcaa 180  
 tttgagagaa ataagtgttg ggaactagtt gagaaatcac ataactaccc cattatagga 240  
 agaaaatgag tatttaggaa taagttagat gaacatggca tagtcattag aaataaggct 300  
 aggttagttg caaaaggata taatcaag 328

<210> 10387  
 <211> 454  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10387

agcttctntg agaaaacttc cttgagaagc tagagcttat ctacacacac ccctctcata 60  
 actaagctca cctccttgag aagcttctt aagaagatc ctaaagaagc ttgagcttag 120  
 ctacacatac ctctctaata gctaagctca cctccttgag atgagaagct agagcttagc 180  
 tacacacccc ctataatagc taagctcacc cccatgacaa ataacatgaa aatacaaaaa 240  
 aagtccttac tacaagact actcaaaatg ccncaaaata caaggctaaa accctatact 300  
 actagaatgg ccataataca aggccagac gaaggaaata cctattctaa tatctacana 360  
 gataagcggg ctacatacta gcccatgggc ttgaaatcta ccctaagtct catgagaacc 420  
 ctanggcctt cccttgatc gctagccaat ctac 454

<210> 10388  
 <211> 332  
 <212> DNA  
 <213> Glycine max

<400> 10388

ttctgcaggg aagctaagtg tgaagtatgc aatcttgc ataggattggca ctgccaaactg 60  
 ggtaccaccc aatcatactt ccactgttgc cacagggttg ggtaaaatttc tgtatgctgt 120  
 tggaaccaag tccaaattta attttgaaa ctatatTTTT gatcaaaacta ttaagcattc 180  
 agaattcttt gctgtcaaat taccattgct ctttccaact gtattgtgtg gcattatgtt 240  
 gagtcaacat cccaatattt taaacaacat tgactctgtg aagaagagag aatctcctct 300  
 atccctgcat tacaactgtt ttgaggggac ac 332

<210> 10389  
 <211> 492  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10389

cacctgcggc tgcagcttaa gaacaaaaa taaaaatatt atcttattag ggagataaca 60  
 cactattaaa aatctattag aaagaaaagt acatctaaat atttattaaa gagtaaaaaa 120  
 tattttaaacc tttaaaatat tcttactaaa aagaacactc ggctagtaat actcgagtaa 180  
 caaagaaaagt tatgatatgg gtatttagta attataacta tcttgtaaac attacttaaa 240  
 tnttttaata atttatatac aggactttta ttgttggtgt caaaataata acatttattt 300  
 tgtaaaacat attcatatgt ataacatatt atatgcttgt tgaatatagg atatacattt 360  
 cttaaaaaaa tatgtataaa caatgataat atactccaat tgaaaaatact tgtatatata 420  
 tataactcct tagaatacgt ttagtcatct gcctcgcaat agagaagaaa tcataatatg 480  
 atttacttag ta 492

<210> 10390  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<400> 10390

agcttctata gaaagtctgt tgctaataac tctacaattg catcaccttt caatgagctg 60  
 gtgaagaaga atgtggcctc tacctcgggt gaaaaacaag agcaagcctc tgctttgctc 120  
 atagaagagc ttactaatgc acctgttcta gctcttctctg actttttctaa aacttttgag 180  
 ctagaatgtg atgcctctgg agtgggagtt ggagttgtat tgttacaatg tgggcaccct 240  
 attgcttatt ttagtgaaaag agaattcata gtgccactct caactactcc acctatgata 300  
 aagagcttta tgtcataata agagccctcc aaacttggga acattacctc gtttccaaag 360  
 aaattgtcat tcatagtgat catcaatcac ttacgtacat t 401

<210> 10391  
 <211> 366  
 <212> DNA  
 <213> Glycine max

<223>        unsure at all n locations  
 <400>        10391

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agcttattaa gaggccttcc cccagaagctt cctcgtggct tctttgagaa gctntctcaa   60
gaggccttctt tgagaagcta gatccttata tatccacacc cctctattaa ctaaattaac  120
ttccttaaaa ataattacgg atgataataa cgcaacanat attcaaacat caaacataat  180
tactaatagt atatatatca atatatatca ggggtgtaca actctccac ccttttagaa  240
attcgtcct cgaagattac cttactcaaa caaggatggg tgagcttctc acatctgact  300
ntctaattcc catgtggcat cttctcctga tgcacctncc cagatcacct tgaccaacag  360
aatctc                                           366
  
```

<210>        10392  
 <211>        319  
 <212>        DNA  
 <213>        Glycine max

<400>        10392

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tgatgaatca tgtatcgtag ttaggaacaa ggctagattg attgctaaag gataacaacca   60
agaggaaggc attgactatg atgagaccta tgcctttggt gcaagggttg aagctattag  120
gctattgctt gcttttggtt gtattatgaa tttcagggtta tatcaaatgg atgtgaaaaag  180
tgcttttctc aatggataca ttgaagaaga gatatatata gaccagcctc caagttttgt  240
agactttgaa catcctaate atgtttacaa gttgaaaaag acactgtgtg gtttaaaaaa  300
agcacctaga ttttggat                                           319
  
```

<210>        10393  
 <211>        326  
 <212>        DNA  
 <213>        Glycine max

<400>        10393

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tgtgaaacct tgcaagctcc aaacacccca tttgaaaatc tttctggatt aaacttgtga   60
gcatcaggcc cccagagttg agggctcttg tgcagcactg agattggaat ctgaatatcc  120
attccttttg gaattaggat gcctttttaa ttaacacctt ggagagctgt tctaacaaca  180
aaggctgctg gcgaataaag cctcaaagtc tcttgaatca ccatgggtcaa ctgcaagtgt  240
aacattttta tatatggcct tcacagatca gtaagaatgc tcatgaaact tggaaatgat  300
  
```

caactataat tacaataaaa tttgag

326

<210> 10394  
<211> 497  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10394

agcttcaaga ataatggcct caacatactt cttattecce gaaggaaatt caataaatag 60  
gcaaagtaat taagatacat tgtataatga aacgtataat aaagaataat ggccccaaca 120  
aacttctaata gctgatgggt ttctgtttgg ttntccaaca acatttggat ccatgggttc 180  
tcaatttaaa gcatttntag aagacactat aagcctgttg tggcttacac aggcactagc 240  
aggaaaacct gtagggttct tctctagcac tagttctcaa ggaggtggac aagaagagac 300  
cccatgagtt atattaatta ttactgaatt cttcaatatt catgattaag gtttccatca 360  
attaatgggt attttgata tatccactca acatgggaga agtcagagca nactattagt 420  
cactactttg tattattatt actggtacga agtatctacc aaccaatgag tcagcttgtc 480  
acgatgggat gatacat 497

<210> 10395  
<211> 311  
<212> DNA  
<213> Glycine max

<400> 10395

caaatacctt tcagaggcac atcaacttca aagtgaagag gaacttgggt aacacacaat 60  
tcactagtaa cagaagacaa gacacgatat tcagcttcag tggatgattt tgaaacagtg 120  
ggttggttct tagaacgcca agaaagaatg atatttccca taaagacaca aaagccagaa 180  
gtggatcttc tggatcaac acagctggcc caatcagcat ccgcaaaggc agggaggctg 240  
agagagttct gagcaaggaa aaacaaacct tgtctatgag cagatttgat atactacaga 300  
agatgatgaa c 311

<210> 10396  
<211> 261  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10396

gaacatcaca tategagacg ctcaaaactg aacaacgaaa gctctcaaga aacagaaatg 60  
gtcataacct ttactctgga tgtccgaatc aggcacataa tatatcgaga cgctcgagaa 120  
tgaacaacgg aagctctcga gaaattcaaa tgaggataac atttactcgc gatgttcgat 180  
tcatgcgcac catatatcga gacgctcgaa attaaacaat tgaagctctc gagaaaatta 240  
aantgtcata actctttact c 261

<210> 10397

<211> 462

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10397

tgcaagctca agaatatggc ctcacaaac tacttgnttc tcgagggtat attctataaa 60  
tagacctcct atctttaatg gagtgggttg ccactactgg aaaacccgca tgcaaattct 120  
tatagaggca atagatntaa atatttgga agccatagaa caaggacctt atgttccctc 180  
tataatggcc ggaagtgcga caatagaaaa acctaaagca gattggactg aggaagaaag 240  
aagaatagta caatataatt tacaggccaa aaatattatt acatctgcc tatgaataga 300  
tgaatactct agggtttcaa atggtaaaag tggttaaggat atgtgggata cactacaagt 360  
aacacatgaa ggcacaacag atgttaaaag atctaggata cacacttta ctcgtaaaata 420  
tgaactgggtt aggatgaatg taaatgaaaa tatacangac at 462

<210> 10398

<211> 375

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10398

ctatggagaa ctnttcttaa ctgnaatttt tacacacgtt cacctatagt gggaaattgat 60  
gaacaccttg ataattcaca gcttgcttca cctcaggtcg caagccattt agaaacatca 120  
cacattntga gctttcacca tcccttctt ggtaatgagg aanatacctc actagctctt 180

canacttggc tgegtattca gctacagtcg tgttcccttg cttgagttca aggaattcca 240  
 tctccttctt gttcctaaca tcttcaggga agtattttct cagaaatacc ctcttgaagg 300  
 tttcccaagt catagcttga ccttcagcct ccacagcatng gtgagtgttc tcccccaat 360  
 actcagtttc ttcta 375

<210> 10399  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10399

ttcttccctc accagtaacc cccaatccaa ggtaaataaa ttgagtttaa tttctatcca 60  
 cttttagtat aattattatc ttacactctc catttatact ggtaatcaat cagaaatcat 120  
 atatgaaaac aactcttaag taactttata taaaagttaa caaacttatt atatgtacca 180  
 tacataaact gcttactcat aaattactat tttnttagg aaatgtttta gctttgttaa 240  
 ttatctataa gctatgtgta tctttccag cattattctg ctatactatt agaatgttca 300  
 atatgttaac caaactagtg gttgttttgt taattattgg acgatacttg aacagaaggg 360  
 aaaaacatga tacatatgaa gaacaatggt ggggtgaa 398

<210> 10400  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10400

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 aaccttagat ggtccagccc tcagcaacaa caatagcagc ctgogtcttc ctttcaaaat 120  
 gctgttggcc caagcagacc atacattcct tcaccaatcc aacaacagca acaaccccg 180  
 aaacagccaa cagttgagge ccctccacaa ccttccctcg aagaacttgt gaggcaaatg 240  
 actatgcaga acatgcagtn tcagcaagag accagagcct tcattcagag cttaaccaat 300  
 cagatgggac aattagctac ccaattgaat caacaacagt ccagagaattc tgacaagctg 360  
 gcttctcaag ctgtccaaaa tc 382

<210> 10401  
 <211> 310  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10401

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 atcttaaagt gtgtgggagt aagtttattt tcttagtcct atatgtatat gatattttac 120  
 ttgcaagtag tgacttgggt cttttgcatg ataccaaaaa ttctctctca caaaactttg 180  
 atatgaagga tacgggtgaa gccttctatg tcattagaat agaaattcat agagatagat 240  
 ctctaagaac atcgagatta tctcanaagg cttacataga anaagttttg aaaagattta 300  
 atatgcagaa 310

<210> 10402  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<400> 10402

aacataaatt ataggccatc ataatagatg gatacaagga tgcaaaatct aaagtagcaa 60  
 ttggtttttc ataaaaatcca gcccttgctt ccaataacctg caagttgtaa agttcaaaat 120  
 gcatgcatca aaaggcaaca cagcttgaca agtgaaacgt ccaaaaaggca aatacaggaa 180  
 aaggtgtaga acattaactc caataatatt atgtagatct ccatacataa agatacttga 240  
 aatttgagaa ttctttcaat ttttcattta ttaactgaag aacaagaggg catttaagat 300  
 tgagcttgat tcaggcctaa catgctgtta gagattccca aacatcaata gttactaatc 360  
 agagtaaa 368

<210> 10403  
 <211> 452  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10403

cttcttcata agggtnctc tttgattctt acagatcaat ggcagtgga tggagaagga 60



agaaagatga ttggagatgc cacttcaagg aaaagatgag tcaagaacaa gccaccacc 120  
 ataggaagcc atggataata agttgaagat acgacaagat gattggaggg agagggagag 180  
 aatgagcacg acattttgtg cctcaaatga ggtctgaact ttgaagtga attctcaaat 240  
 gatcaaagtt gaaaaaatgc acacacatgg cctctattta tagcataagt gtcacacaac 300  
 aatagagggg atattgaatt tctattcaaa tatcactcga atttgnaatc gaattcgtgg 360  
 agccaaattg attagtgaat tctagctact ggtcaacca ctaatccaag atcaagttca 420  
 agatgctcca ctaagtgtgc ttacgtgtca tg 452

<210> 10404  
 <211> 517  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10404

gccaaagcct ctgtgattga ttcaagactt caagatcaag catcaagaat ccaatccaag 60  
 attcaagatt aaagagaaga aatcaagaag caacaagtca agacttcata tgggataagt 120  
 attaaaagat tttttcaaaa aaacaaatag cagagttntg ttttcaaaaa gaattttctc 180  
 anactttcaa agttaccaga gtgattactc tctggtaatc gattaccagt tggctgtaat 240  
 caattaccag tgaccaattt gggttttcaa atgttttcaa atggtttgca atgttccaaa 300  
 atgattntca aatagtgtaa tggattacac tatattagta attgattaca agtgaatctg 360  
 aacgttgga ttcanatcca attgtgaaga gtcacaactt ttcataanat gcattgtgta 420  
 atcgattaca cctttgtggg aatcaattat cagtaaacag ttttgaagaa aaagtaagag 480  
 ttatactctt acatggtctc aaatgcatac tcttcat 517

<210> 10405  
 <211> 480  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10405

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 gcgctaaact gctgagagtt ggaagccatc ttctcaatta aatttctggc ttcagcaaga 120

gtcatgtctc caagggtcc accactggca gcactatca tacttttctc catattactg 180  
 agtccttcat aaaaatattg gagaagaagc tgttttgaaa tctgatggg ggggcaactg 240  
 gcacatagtt tcttaaactc ctcccagtac tcatacaggc tctctccact gagttgtcta 300  
 atacctgaga tatccttctc gatggctgtg gtccctggaag cagggaataa tttttcta 360  
 aatactctct taaggtcacc ccagctcgtg atggaccttg gagcaaggaa tacagccagt 420  
 cctttgccac tccctcttat gaatgangaa aagccttcag aaatatgtga tctctttgga 480

<210> 10406  
 <211> 360  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10406

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 ttcataca tgtgttccat nttcttgag tatgagagtt gaggtggcac tctctctgtt 120  
 aaattgttga atgataaatc aagacagttg agaacagtaa ggtggccaaa ttcagaagga 180  
 atgctttctg tgagataatt ctctccaagt ctgagacggc tgangtttct agaattgggt 240  
 agagtgggaag ggatgggacc tgagaagctg ttgttagtca ccgccataaa ggcattggaat 300  
 ttgaccagtg agaggaaaga actttctga acttggtgtg aaagtatgat ttgagctttt 360

<210> 10407  
 <211> 511  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10407

tgcaagcttc agtttgccn ctgcgtctaa tcacatgccg gttctgtgga gatatgggtc 60  
 aagctgggag gtctgccatg gacgtccgtg acagattaag aggattgtct gacggtctctg 120  
 tgatgttgaa ggacatggat attcaccaga tttctgttca tcaaagtggc tagttgatag 180  
 cagtgtagca gcaacagcaa catcagagaa aacagggaaa gtaaacaaca atgcaggagt 240  
 acaattagca aaagcaaaga ggagagttac caggccagca tatctcagag attatgcctg 300  
 aaatgcaatg caaatgatga ggagatgagc tggcagtgca ggatttgcta gcttctagtt 360

gtccctgct aggatgcac cataaccaat tctgttatgc aaatatctct agaagatatg 420  
gataattctct ttagcagtag gcattatata tgcatatgta aataactagc anaatcaata 480  
agaaccaatt acactcctct cattccttcc c 511

<210> 10408  
<211> 238  
<212> DNA  
<213> Glycine max

<400> 10408  
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tgggtaaaata gtcacttttg tccctgaaag tgtaactcgc tgacaatttg gtccttgaat 120  
cgagataaat tgcaaaataa tccctgaaac gtgcactctgt tagtcactac cgtgaatgga 180  
gtagttacct ccgtcattta tctctgatgt gggttcgttta atgccacaca cacatgat 238

<210> 10409  
<211> 323  
<212> DNA  
<213> Glycine max

<400> 10409  
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tggcactaaa ttgctgggag tttgaagtca tcttctcaat taaatttatg gcttcagcag 120  
gggtcatgtc tccaagggct ccaccactgg cagcatctat catacttctc tccatgttac 180  
tgagtctctc ataaaaatat tggaggagaa gctgctcaga aatctagtgg tgaggacaac 240  
tggcacatag tttcttaaat ctctcccagt attcatataa gctctctcca ctgagttgcc 300  
taattcctga aatatctttt ctg 323

<210> 10410  
<211> 461  
<212> DNA  
<213> Glycine max

<400> 10410  
aagaaagagt tatatggtaa gccttggtac ttctatcata aacttatgca taaaaacaag 60  
gaatacccgt aggaggcctc tgacaacgac aacgaaggtt ggtggccagc ttcttctga 120

gtgggaatat cctatacaag aggaaccatg acatgggtact gcttcgatgt gtggatgcca 180  
gagaggctaa gcaaatgctg gtagagggtg atgaaggatc ctttagcacg catgccaatg 240  
gacatgcctt ggcccgaaaa attctgagag tgggggtatta ctggctcact atggagagcg 300  
attgttgcat ccatgtgagg aaatgccata agttccaggc ctctcgtgat aatgttaatg 360  
ctccacccat accttttaac gtcttggtga gcaccttggc cattctctat gtgtggaata 420  
gacgtgatca gagccattga gcctaaagat tcaaacggac a 461

<210> 10411  
<211> 371  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10411

aaggaaattn gaatttctat tcagatttca ctgcaatttg aaattgaatt tgtggagcca 60  
aaatttcatt aattatcatt agtgaatttt agctatggtt tagcccaacta atccaagatc 120  
aagactaaga ttctccacta agtgtgctta ggtgtcatga ctcatgaggc atgtaaaaca 180  
tgaaagacat gcacaaagta tgactatatg atgtggcaat gaggtgtagc aagcaaatgc 240  
tcacctcccc ctctaaaatt taattggatt gggcttctcc caattcaatt aaatttattt 300  
cccaacacac acatgtacaa tgttcttatt gaaaaataaa ggtttaattg cacttcttac 360  
tccttaactt t 371

<210> 10412  
<211> 443  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10412

aagggttagg acacccctat gttgggttaga gcccganata nttctcacct tatgacaaaa 60  
agtggtacaa cataccactg agaaagttaa gttaattgaa gaaaggatga gaactgctca 120  
gagtaggcag aaaagttatc atgataagag gaggaagat ctggaattcg aggttggtga 180  
tcatgtatcc ttgagagtca ctccgtggac tggggctggt cgagcattga aatccccgaaa 240  
actaacaccg cgctntattg gtccttttca aattcttaag agagttggcc ctctggcata 300

ccaaattgca ttacccccgt ctctttctaa ttttcacaat gtctttcatg tgtctcaagt 360  
 ccgtaagtat atccgtgac catcccatgt gattgaattg gatgatgtac aagtgaacga 420  
 gaatctgaca tatgaaacat tac 443

<210> 10413  
 <211> 125  
 <212> DNA  
 <213> Glycine max

<400> 10413  
 acacatgaat gacaacgcc ctcattcatg gggtccgaa aaagggtaaa aatggaggat 60  
 ctgcctgaag gtctctctt aagcaatcat ggaacacaac tccatactcg aaagtggagg 120  
 accca 125

<210> 10414  
 <211> 471  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10414

tgccttggtta acttggttaac ccagctggcc ttgaataaga aatctgtacc tgtcgcaaga 60  
 gtctgtggtt tatgtctctt tgctgaccac catacagatc ttttcccttt tatgcagcaa 120  
 cttggagcaa ttgagcagcc tgaagcttat gtctgcaaac attacaacaa acctcctcca 180  
 cctcagcagc aaaatcaacc acagcagaac aattatgacc tctccagcaa cagatacaat 240  
 ctcgatgga ggaatcacc taatctcaga tggcttagcc ctcaacagca acaacaacag 300  
 cctgtctctt ccttccaaaa tgggtgtggt ccaagtagac catacgttcc tcttccaata 360  
 caacaacaac aacaacaaca acagccccag aaacaacana cagntgaggc cccnntcgca 420  
 ccttctctga gaacttggtga gganatgact atgcaaacat gcagttcaac a 471

<210> 10415  
 <211> 346  
 <212> DNA  
 <213> Glycine max

<400> 10415

gcattgcaagc ttgactttcg ttcgctcaga tagtattctt tctggatctc attctatctc 60  
cattagaaaa gaggaggaac taagcaaaaat gaagacatgg gaagccacat ccacttcaac 120  
atctaaatca attggcactg gcctatcctt acctgaagat ttatatattt gcttggaaga 180  
tcttcttaat gtggcatcaa cgcaaaaagt gatttctaac catcaagggtg agaaatgcat 240  
ggaagaatag cttgatggtt cagcgggaat tctggatatt tgtggcatta caaggaacac 300  
catgccacaa gttaatggaa atgttcaagc acctcattct gctctt 346

<210> 10416  
<211> 358  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10416

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antaatatga accttcaagc aacaaataga atccagggtg gaggaatcat ccaaatctga 120  
gatgggcaag tcttcataa taacaacagc ctgtccctca tttccagaat gctgctagtc 180  
caagcaagcc atatgttctt cctccaatgc agtagcagca gcaacaacaa caacaaagac 240  
aacaagcaac tgaggctcct tttcaacctt ccttagagga gttagtggagg caaatgacca 300  
tccagaatat gcaatttcaa caatagacaa gagcctncat tcagagtctg acaaatca 358

<210> 10417  
<211> 460  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10417

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atcaacacat gctttgtggc caaagatgca tgggagatcc tgaaaaccac tcatgaagga 120  
accttcaag tgaagatgct cagattgcaa ctattggcta caaaattcga aaatctgaag 180  
atgaaggagg aagagtgtat tcatgacttc cacatgaaca ttcttgaaat tgccaatgct 240  
tgactgcct tgggagaaaag aatgacagat gataagctgg tgagaaagat cctcagatcc 300  
tcgcctaaga gatttgacat gaaagtcact gcaatagagg aggcccaaga catttgcaac 360

atgagagtgg atgaactcat tggttccctt caaaccttng agctangact ctccgatagg 420  
gctgaaaaga gagcaagaac ttgcgttcgt gtcaatgatg 460

<210> 10418  
<211> 392  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10418

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ctgtccttc cttccaaaat ggtgttgcc caagcagacc atacattcct ccaccaatcc 180  
aacaacagca acagccccag aaacaaccaa cagttgagc tcctccgcaa ccttcctca 240  
aagaacttgt gaggcaaatg accatgcaga acatgcagtt tcaacaagag accagacct 300  
ncattcagag cttaaccaat tagatgggac aatnggctac accaataaat caacaacagt 360  
cccagaattc tgacaagctg ccttctcaat ct 392

<210> 10419  
<211> 318  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10419

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acaataactt tttactctga tgtctgatt agtcccgtaa tatatcgaga cgcttcgaat 120  
tgaatcttga tgctctgagc aaattcaaac gacaataact tnttactcgg atgtctgatt 180  
gagtctgta atatatcgag acgctctgaa attaatacga aagctatgag caaattcaaa 240  
cgacaataat ttttactcgg atgtctgant gagtctcgta atatatcgac acgctcgaaa 300  
trgaatgttg atgctctg 318

<210> 10420  
<211> 458  
<212> DNA  
<213> Glycine max

<223>        unsure at all n locations  
<400>        10420

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tcagcaaagg tgatgtttcg agtagactaa ctggttgacc caaagcactg tatgcagctt    120  
cagaaattgc acaggcagaa atagcccaa ctgattcacc acctaaagca tactgtgtga    180  
aacctttatt gcatgaagag tcctcttcaa tatcataaga aaactgaata agttgattac    240  
catataaatt tctcaccgtt ccatcatatg catcatacaa atcacgcatg aagaacataa    300  
gtctacgtgt cagtgtacca ggaagggtccg catggtcact gaaagagcta tcacgatttg    360  
tcaatgaatg aacaaaacat tcaagtggat tcaaccagat taaataagaa ctntcaacta    420  
cagcatatgg aatgtatgac tgaacagaaa tcagggta                                458

<210>        10421  
<211>        378  
<212>        DNA  
<213>        Glycine max

<223>        unsure at all n locations  
<400>        10421

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caaccttata ggactgcaat ttctcaagtt tagttcttcc attaaagctt ccagccataa    120  
agcttgacag gctgccatag caacaacaat atattctgct tcacatgttg acaaagcaac    180  
tacactctgc ttctttgagc accaagagat tggatgatgtt ccaaatttga aaacataccc    240  
agcagtgttt ntctatcat ctttatcacc acaccaatct aaatcactat aaccaaacac    300  
ttctcttctt atanttcttt gattgaagga tataaaatgc caagatccaa tgttcttttc    360  
acatacctca gaatcttc    378

<210>        10422  
<211>        274  
<212>        DNA  
<213>        Glycine max

<400>        10422

cgcttgatgt gacgacattt taatatgtga atgtccatta atttgatgca tgactaacga    60  
gaaccaccct tacaactacg tagactcata accggagata ggcttgaggt caagatctaa    120



tctagttaat tagttggtag atgttcacac caagcttgaa ctttcattct aaacccttta 180  
 tctgaccagt aatataattg atcggtatct agcagataag acatttccaa ggttgatgaat 240  
 gtaattgggc ggcacaaatg tcttctgat ggca 274

<210> 10423  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10423

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 cccaggatat taaacatata aatatatgaa gacaaaatta cttacaacac gataattaac 180  
 cacaattcac tcagataata aaaatagtaa cagcagaagc attcaaatct caattccccc 240  
 tttatatttc ttgattccta ttggttcaaa attcaattca atttaaaatc aaccaacata 300  
 acaaactctt caactctgtc caatttatgg cacttcaaaa acacatagca gtaatgattn 360  
 ttacatacac tc 372

<210> 10424  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10424

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 caacagtcac atctttttct ctgattctta agtggccatc aaaggcttat atatatatga 120  
 ctagagacac aaatttaaca agagttttga agaacaaaaa ggtcttatcc tcttaacaag 180  
 caaaattggt ttatctctt acaaattcct tggccaaaac acttggtgatt caataaggaa 240  
 ttatttgagt gctcaaattg ttcaatctat ctctttcaag agagatttct tcttctcttc 300  
 ttctttatct tgaaaaggga ttaagaggcc gatggtctct tgggtgtgaaa ggattctaaa 360  
 cacaaaggaa ggattgtcct tgtgtgttta gaacttgaaa aggaattgca agatagtgga 420  
 actctcaagc gggttgcttg ggactggacg t 451

<210> 10425  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10425

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gatgtatggg atttagtccc taaaccaacc tctcacaagc caatcgaaaa caaatgggtg   120
ttttgaaaca aacttgatga atctggcatc atagtgagga ataaagaaag attggctgcn   180
aaaggatata actaagaaga aggaattgaa tatgatgaaa cctatgctct agttgcaagg   240
ttagaagcta taagattgct acttacattt gcttgtatta tgaatttcag actttttcag   300
atggatgtaa aaagtgtctt cctcaatgga tgcattgaat aagaagtgtg tgtagaccaa   360
ccactangat ttgtggatca tgaacatcct gact                                394
  
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<210> 10426  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<400> 10426

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tattcggaga cccatgaatt gattgcctag cgcagattat gcgtcctcca ccacgagtc   60
taaagccccg tggattgatt gcctagcggt gttcgtctat cctccaccct caaatcttat   120
tcggagaccc atgaattgat tgccatgcgc agttcatgcy tccccaaacca tcaagtctgg   180
agccccacga attgattgcc tagcgttggt catctatcct ccaccctcaa atctttattcg   240
gagtcocatg acttcattgc cttgctcggt tcatgcgtcc tacaccatcg agtctggagc   300
cccacgaatt gattgcctag cggtgttccc ctatactcca cctcaaatc taattcggag   360
acccatgaat tgattaccta gcgctgttca tgcgtccaca accattgagt ctggagccct   420
acgaattgat tgccatgc                                438
  
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<210> 10427  
 <211> 456  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 10427

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tgccctctgga gtgggagttg gagttgtatt gttacaaggt gggcaccccta ttccttattt 120  
tagtgaaaaa cttcatagtg ccaccctcaa ctacccacc tatgataaag agctttatgc 180  
cttaataaga gccctccaaa cttgggaaca ttaccttggt tccaaggaat ntgtcattca 240  
tagtgatcat caatcactta agtacatcag agggcaaagc aagttaaaca agaggcatgc 300  
aaaatgggta gagtacctag agcaatttcc atatgttatc aaatacaaaa agggaaaaac 360  
aaatgtggta gatgatgcc tttctaggag acacacatng ttntgctccc tangagcntc 420  
aaatttatga tttgataata ttagggactt gtatgc 456

<210> 10428

<211> 435

<212> DNA

<213> Glycine max

<400> 10428

tytaatcgat tacacacata ctgtaatcga ttaccagatg agtttttcag aaaacattct 60  
caacagtcac atctttttct ctgattctta agtggccatc aaaggcttat atatatatga 120  
ctagagacac aaatttaaca agagttttga agaacaaaaa ggtcttatcc tcttaacaag 180  
caaaattggt ttatctctctt acaaattcct tggccaaaac acttgtgatt caataaggaa 240  
ttatttgagt gctcaaattg ttcaatctat ctctttcaag agagatttct tcttctcttc 300  
ttctttatcc tgaagaggga ttaagaggcc gatggtctct tgttggtgaaa ggattctaaa 360  
caciaaggaa ggattgtcct tgtgtgttta gaacttgtaa aaggaattga caagatagtg 420  
gaactctcaa gcggg 435

<210> 10429

<211> 392

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10429

agcttgacc tgctagccca cggaattagt gggcgcacc atataaaaaa tttttattaa 60  
aaaattaaat tttaaaacgt aaaagttgga aaccatttaa gaactatgaa atatcaata 120

aaaaattatt tgtccaaaat aattacaata attacatctc aagtcaccta aaaaaagtat 180  
 tnttttcata tcatatntac ttaatttgta attctatatt aaatcaaaat tatcaccatt 240  
 caccanacca ttgaaaaata tataaagtac ttacattcta tatgtttttt aaaagttatt 300  
 tttttcttaa nttatgcccc ttatttatta gtatcatata tgttatatta nnaatataaa 360  
 agtctgtcag taaaacttgt ttaaacacgc ag 392

<210> 10430  
 <211> 458  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10430

tatgtctcac acatctacaa cagacctcct caacctcatt atcaaatcag ccacaataga 60  
 acaattatga cctctccaac aataggtaca atcctgggtg gaggaatcat cccaacctta 120  
 gatggtcaaa tcctttacaa cagcagcaac aacaacctta ttttcaaaat gttgctggcc 180  
 caagcagacc atacgttctt ccaccaatcc agcaacaaca gcaacagccc cagaaacaac 240  
 aaacaattga gactcctctg caaccttccc ttgaagagct tgtgaggcaa atgactatgc 300  
 aaaacatgca gtttcaacaa gagaccagag ccttcattta gagcttaact aatcagatgg 360  
 gacaattggc tacacagtta aatcaacaac aatcccagaa ttgtgataga ataccttctc 420  
 aatctgtcca gaatcccnaa aatgtgagtg tcattaca 458

<210> 10431  
 <211> 467  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10431

tgttgagat aaaggtgntg tggaggcagc cctcgctata ggaagtgaag ttagacattt 60  
 gcaacgcgaa acttttgaag gggtcacaac attgatgtca aattttactg aattcgccac 120  
 ggtggggaag catatgacaa tacttgtagg ctccacaaag cttgaagtgt atcaaactga 180  
 ctttgggtgg ggaaaaccca agaggagtga agtagttcat gtagataatt caggaacaat 240  
 ctccctttct gactgtagag acaagaagg tcgaattgaa gttgggtag cactgcaaaa 300

gattcaaatg aatcaattca gtaccacttt ggaagagcac ctcacagaaa ttggagtctt 360  
 tgactgaaaa tctccactca cagaatatgg ttgcacaatg cacacttgca cagttcaact 420  
 cctaccaacc gtacgcgtag aatgataatg atattaactg ttacata 467

<210> 10432  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<400> 10432  
 taagagggtc ggcagtgcta atggatgttt cccttgattg gagaaggtag aaatattgtc 60  
 taagatggag tgctcttttg atatcacctt ttgttgaga acaatttttc ttcttaacaa 120  
 tcttgtaga ggaatcattt tctctttat ccttccctt agactttgaa gacaaggcct 180  
 tactatactt ctttgtcttt tgtgtttctt cctcatcctt cttatctttc atagttagtt 240  
 gatcttttgc cacctgtgaa ggtgtttaag gatgcaacac aaattttgtg ccaagatacg 300  
 tgacggtaat ctcatgtgtt aggcatttgc aaacgatctt cctatcaaat tgccatggcc 360  
 ttctaaaag aatatgtcct gcctgcacgg gaactatata ac 402

<210> 10433  
 <211> 366  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10433  
 tatgtgtggg atacctagtg tgagcatagt ttccaaactc ttaaggaaaa gttgacgacc 60  
 gctactatgt tagttttgcc taacatgaga gaacccttcc aggtgtattg tgatgcacca 120  
 aagatgggtt taggaggagt attgatgtaa aatggctaag tagtggccta cgcttctaga 180  
 caactccaga ctcatgagag gaattatccc actcatgata tagagtaggc tactgtagtt 240  
 ttttccctta agatatggag gcattacctc ttgtgcccc agtttgaggt gtttagtgat 300  
 tataagagcc ttaagtactt gtttatgttg gatcgagtgg cctcagaata attaagaagg 360  
 ngggggg 366

<210> 10434

<211> 306  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10434

agcttaagct ccttcaactg cacaaggctt ttaatatattg aagagtatnc ttgtggaaac 60  
 ctcacccgac naaagaccac tgacaactta tctttctctt tctggacaaa gtatggcagg 120  
 gctggggcaa gtaaaatttc ttccatcaa accttgatg caactgtgat cgtatgccca 180  
 tataagctaa atcttgacgg gtattcaagc catccttcgt ctgacctga atgttaaaga 240  
 gcggtccaat cacactgtca caaacatttt tctccacatc cataacatca atacaatgtc 300  
 taacgt 306

<210> 10435  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10435

ttttagtaga tgaagatgaa ttgtggcta cctcatggac tcccttaagg acaatagcat 60  
 gctttcttgc actgaattgt tgggagttgg aagccatctt ctcaatcaaa ttccatgctt 120  
 cagcaagggc catatcacca agatcttcac cattggtagt atcaatcata ctccctctcca 180  
 tgttgctaag tccctcatag aaatattgaa gaaggagttg cttagaaatc tgggtggtggg 240  
 gacaacttgc acacaatttc ttgaatcttt ccagtgactc atacaagctt tctccactaa 300  
 gttgcctgat gcctaaaatg tcttttctga tggcagtggt cctagatgca gggaagaatt 360  
 tctccaagaa caccctctta aggtcatccc agctganaat ggacctgnga gcaaggtagt 420  
 at 422

<210> 10436  
 <211> 467  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10436

tgtcagcttc ttctggcaat ggttgacca gggtcatttt tgaaaagncc ttgtgctgtg 60

attcagattc ttcagctgca ttaactagat cactcaagca gtatctgaca gaggatcaaa 120  
 ttttcaggtt ttctaactaa aactgataat cttcaattca actttaagat tgtaaagtac 180  
 attttataaa atgggaaata ttatacagga ttgaccacta tcttgggaaa gagcttgtgg 240  
 aaaaattttc tgtttctcca ttctcaaate tcattcttga accattatgg tcaaggcaat 300  
 atataagaaa tgtacagttg atattctcag aagattttgg cactgaaggg cgtggcgggg 360  
 aacctttatt ccttaacagc ttccacactt tctgttctta taatggggat tcttatacat 420  
 ttccatatct gtaccatgtg taggtactct gaccattatg gtatcat 467

<210> 10437  
 <211> 413  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10437

tgaagganaa cttgatgtct tgctcaacct agtaactcat cttgtcataa attagaaatc 60  
 tacacatggt gcaagagtct gtggctctatg ttcttctgca gatcaccata cagatctatg 120  
 tccttccttg cagcaatcta gagtcaatga gcaacctgaa gcttatgcta caaacattta 180  
 taatagacct cctcagtagc aaaaccaaca acaacagaat aattatgac tttcaagcaa 240  
 caaatacaat ccaggttgga ggaatcatcc aaatctgaga tggacaagtc ctccataaca 300  
 acaacaacag attgtccctt cttttcagaa tgctgctggt ccgagcaagc catatgttcc 360  
 tcctctaatag cagcaacatt agcagcagtt tgaacaaaga taaccagcaa ctg 413

<210> 10438  
 <211> 271  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10438

agcttcaatg gctcaatgag caaggggatt tgatagtcaa tcaacaagta aagatacctt 60  
 tttctataag agactatngc gatgaagttt atgttatata ctccctangg aagcaaggca 120  
 cattttgntg ggtagagtat ggcaatatga caagaaagca atccacaatg gtctcaccaa 180  
 tgaaataacc ttcacccatg gaagcaaaan agtaaaactt gttcccttga caccttcaaa 240

agtgggttggg gatcaagtac aaataaaact c

271

<210> 10439  
<211> 467  
<212> DNA  
<213> Glycine max

<400> 10439

ttatgcgggc atcgtataat aacaccataa catgatgggt ttgggttaat ttcatttttg 60  
aacacttgcc gctatctttg ctcttagatc cttgcgcaag attttgccctg acgggtgactt 120  
gggaattgca tcaatgaaga atactcgggt tattcttttg taaaacacca cctgcacaat 180  
tcacacaactc attacattcc ttattttgtg gctaagaaag gtacagtaca catcataaac 240  
ctgtaaaaaa cgcattttata tctgaaagtg acccagacat ttagaattag gtgggaagaa 300  
gcggtgtggg tcagttataa gaaaaaatga gaaattatat taatacggca tgaatgagat 360  
tatttttaaa atgaatatat attagatcaa gtgaaaatta atagcaaagt aattataacg 420  
tgtttttattt atttattaag aaagtattaa ataatagtga atatatg 467

<210> 10440  
<211> 458  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10440

ntntattcac agaaggaaat tcaataaata ggcttcctat tttaatggag aggggttacc 60  
actactggaa aacacaaatg caaatcgtca ttgaggcaat tgacttaaac atttgggaag 120  
ccatagaaat aagaccttat gtaccactg tgggtggctgg aaatacaaca atagaaaagc 180  
ctanggaaaa ttggagttag gaagaaagaa gacgagtaca atataacttc aaagccaaaa 240  
acataattac ttcttgata aatactttaa ctcatgagta tgaattgttt aggatgaaga 300  
caaatganag tatataagat atgcagaana gattcacaca tatagttaat catcttgcat 360  
cattaggaag aatattccca aacgaggatc tcataaataa agtggttaaga tgtctaagta 420  
gaaaatggca accaaaggta acagccatca tagaatct 458

<210> 10441



<211> 265  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10441

tctcgatata ttatgtccnc gaatcagaca tctgggggta gagttatgac catttgaatt 60  
 tctcgagagc taccgtagtt caatttcgag tatctcgata tactattttc ccaaactcgga 120  
 tatgccttgc ataagctatg acccattcaa tgtctcgaga tcttcggctg ttcacattca 180  
 agcgtgtcga tatattatgt cctctaatac cacatccgag tgaaatagta tgagtagtcg 240  
 attttctcga gagattccgg tgttc 265

<210> 10442  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10442

ntgagccaat tcagacaaca ataacttttt actcggatgt cttattgagt cccgcaatat 60  
 atcgagacgc tcgaaattga atgttgaacc tctgagcaaa ctcaaacgac aataactttt 120  
 tactcggatg tctgattgag tcccgtcata tatcgagacg ctcgaaattg aatgttgaac 180  
 ctcatagcga attcaaacca caataacttt atactcggat gtctgattga gtcccgtaat 240  
 atatcgagac gctcgaagtt gaatgttgaa gctctcagcc atttcaaacy acaataactt 300  
 ttactcggga tgtctgattg agtcccgtaa tatatcgaga cgctcgaaat cgaatgttga 360  
 agctctgaac taattcaaac gaacaataac ttttactcgg atgtctga 408

<210> 10443  
 <211> 226  
 <212> DNA  
 <213> Glycine max

<400> 10443

cgacaatacc ttgtgacacg gatgtctgat tgagtcacgc tttatctcga gacgcttgaa 60  
 attgaatacc gaagctctga gcaggtacag acaacaataa ctttttactc ggatgtcgga 120  
 ttgagtcacg taatatgtcg agacgctcgc aatagaatac cgaagctctg atcagatcca 180

gacgacaata cctattgact cggatgtcgg attgagtcac gtaata

226

<210> 10444  
<211> 370  
<212> DNA  
<213> Glycine max

<400> 10444

tatgaggaga agcataagat taagcaagag atcaccattc tactcttcaa gttgcaactg 60  
aaggagaagg aagaaagta aggaatgaa agaagtcatt gatgccgagg tagagggtga 120  
ggtcacggtc gaggataggt tggagggtgc aatagtgtac gaggttcaaa ttcatcaac 180  
aatagttacg agaaatgaa aagctcaaga gaatgtggaa aaggctatac aagcacaagg 240  
tatgataaat ctcaactcg atgttataaa tgtcaaaaga ttggccacta tgcttcaaaa 300  
tgtagattcg ccaagaatag agttgaggag gagactaact atgtggagca aaaggatgag 360  
aagttcaaat 370

<210> 10445  
<211> 454  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10445

caagctgttt acccatggt gagtntgctt acaatatagc tgttcatagc actactaatt 60  
gttctccttt tgaagttggt tatgttttta acccactaac ttctcttgat cttttgccta 120  
tgctaatagt ttctattttt aagcataaag aagggtcaagt aaaggcggtc tatgtgaaga 180  
agcttcatga gagagtcaaa gatcaaattg acaggaaaaa taaaagctat gctaaacaag 240  
ccaacaaagg gagaagaag gttgtcttcg aacctggaga ttgggttttg gtgcacatga 300  
gaaaagaag gtttatggaa caaatgatat caaagcttca accaagggga gatggaccat 360  
tttaagtgtc tgaagaatc aatgacaatg cttacaaagt tgagctaccc agtgagtata 420  
atgttagttc caccttcaat gtctctgact tatc 454

<210> 10446  
<211> 407  
<212> DNA  
<213> Glycine max

<400> 10446

tatacatgag tatgatttta tgatcctatt tctataatgt tgagaaacat agacttcctc 60

ttcaatgtat ccgtttagaa aagaactttc ccatccattt ggtacagatt taaatctata 120

atgcaagcaa atgcaaccaa caatctcaca acttctaato taactatcgg agcataggtt 180

tcaccaaagt ctatatcttg ttgttggtta taacccttga ctactagcct cgctatgtta 240

ctagttatta agccatgttc atctagctta ttttttaaaa cccattttgc acctataatg 300

tttgtcttac taggcctagg tactagttcc caaaattcat ttctcttaga ctaattaagt 360

tcateatgca tagctataac ccaatgttca taacaagtgc ctattca 407

<210> 10447

<211> 326

<212> DNA

<213> Glycine max

<400> 10447

agcttgaagg taaactagat gccttggtt acctggtaac ccaactggcc ttgaatcaga 60

aatttgtacc tatcgtaaga ttctgtggtt tatgctcctc taccgaccac catacaaacc 120

tttgcccttc tatgcagcaa tctggagcaa ttgagcagcc tgaagcttat gctgcaaaaa 180

tttacaatag acctcctcaa ccttagcagc aaaatcaacc acagcagaac aattatgacc 240

ttcttagtaa cagatacaat cccggatgga ggaatcacc taatctcaga tggcttagcc 300

ctcaacaaca acaacaaca caacct 326

<210> 10448

<211> 412

<212> DNA

<213> Glycine max

<400> 10448

tttgagctg gaatcattta tctatctcc tatagcttat gggtagtcc cgtccaggta 60

gtcccgaaga agactagcct cacagtgtac agaaatgaga aggaggagct gattcctatt 120

cggggtgcaga acagttggag agtctgcatt gactatagga ggctgaacca ggttacaaaa 180

aagaaccatt ttccctgcc attcattgac cagatgcttg aacgcctggc aggtaaatcc 240

cactactgtt tcttgatgg tttttctggt tatatgcaaa ttactattgc tctgaggat 300

caggaaaaga ccacattcac ctgcccccttc ggcacttttggt cttataggag gatgcctttc 360

ggcctgtgca atgccccctgg taccttccag cgggtgcatga ttatatatatt ca 412

<210> 10449  
<211> 227  
<212> DNA  
<213> Glycine max

<400> 10449

attattttcct aataactgtc gttcttgggtg tgatacatat gagataatat tccatttagca 60

gaatatatga tcagacattg ctatactgtt catttaaacc acgttgaaat tgcacgcctc 120

tatcttcgag ttttcttttt gcaatgatag caagagtaga acaggtacat cgcacagtac 180

aagaacaaat aggatctggc ctaaaattct ctatttcac ccatata 227

<210> 10450  
<211> 393  
<212> DNA  
<213> Glycine max

<400> 10450

cgcttgaag ttggactcgg tccttcggtt agaggggtcat tctatatgta aatagtccca 60

aaaccagaaa tggacgcctt aagagggtca acaattttca tagcagtcgg gtgttccccc 120

attatgttgt tatggaaata aaagtggagc tgggtgagtc tttccacggg ttttgtggat 180

agagacatag gacactcttt tgtaaact tcaactatttg ctggtaagga acctgacatg 240

ataaccatga aatgcaacga aaaaaggaga cacacaagtg aagccatata ggtacaattt 300

ttaggtatgt tagccaacgg ttgcaaacag ctatatatat aggtaccag aagatatagg 360

taccttgtgg tggataactt tattagctac ttt 393

<210> 10451  
<211> 420  
<212> DNA  
<213> Glycine max

<400> 10451

ggacacttga aactcagcta gtacatatag ttgcaacctg aggtccttta tagacttatt 60

aaaaatatca gccaaagtgt acgagatcta tctttatgtg tttaggatgt tcattggaaga 120

ctaaattaca tgcaacgtga atagagcaac tcgattgtca catataagct tagtgtcttg 180  
 agtgtttgca aactttaatt gctgtacaag gtgcctaagc catgtaattt ctcatgcaac 240  
 ttctgttatg gtatagcatt caactacagc gctggatctc gcagctatat ttgtcttatt 300  
 gcttctccat gagatcaaat tccctacgag cagaacacaa tagcctgagg tataactcct 360  
 gtgcgcatcag cactagacta acaaacaata ttgacattgt cttegccttc atatacaaat 420

<210> 10452  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10452

tctaaactnt gtacaagaat gaagctctga taccacttgt tagacaagtg gctcagata 60  
 tcttaagaag ggggggttga attaagatat tccaaacttt tctcctaatt aaaaatctat 120  
 cttacttttt acttaaagtt atgaattccc ttaatgacaa tcttcttaaa tattaattca 180  
 aatgaagcaa cttgaattat gaatataaag caataataaa taaaggagat taagggaaga 240  
 gaaaatgcaa actcagtttt atactgggtc ggccacaccc ttgtgcctac gtccagtcctc 300  
 caagcaaccc gcttgagagt tccactaact tgtaaaattcc ttttacaagt tctaaacaca 360  
 caaggacaac ccttcctttg tgtttagaga ttctttacaa caagagactc acagtc 416

<210> 10453  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<400> 10453

ctcagcttct caagatttaa gttcttctta acactgttta ttcttagtcc caagtccctat 60  
 aacaacttgc atttgcccat cgagtttgcg ggtgacaagt ggttgaaaat aacaaattaa 120  
 tgcccaactt gctccacaga gtctccaaa taaggcttag gaacttaaag tccctatcac 180  
 taacaatgct ccttggcaaa ccatggagtc tcacaatctc cttgaaaaac aaatcagcca 240  
 catgggaagc atcatcaatt tttttacatg gaataaaatg agccatttta gagaacctat 300  
 caacaaccac agaaatggaa tctctaccat agcttgtttt tggcagcccc ataacaaaat 360

<210> 10454  
<211> 401  
<212> DNA  
<213> Glycine max

<400> 10454

tgtaggcctt ggatcttctt catcaatgga gtcctttggt tcttgaagat caatgacagt 60  
ggaatgcaga aggaggaag gtgattggag atgccacttc aaggagaaga gagtcaagaa 120  
caagttcacc accatatgaa gccatggata agagcttgaa ggttgagaa gatgagtgga 180  
gggagagga gagaagggg acgaaattta tgcctcgaat gaggtctaaa atttgaagtg 240  
taatttctca aatgatcaaa gtagaaataa tgcacacaaa aggcctctat ttatagccta 300  
agtgtcacat gaaattggag ggaaatttga attttattca aatttcactt gaatttaaatt 360  
tcgtggagct aaatttggag cctaaagttc actaactatg a 401

<210> 10455  
<211> 410  
<212> DNA  
<213> Glycine max

<400> 10455

accagctgg ccttgaatca gaaatctgta cctgtcgcaa gggtttgagg tttgcgctcc 60  
tctgctgacc accatacaga cctttgccat accatgcagc aacctggagc aattgagcag 120  
cctgaagctt atgctgcaaa tagttacaat agacctcttc aacctcagca gcaaaatcaa 180  
ccacagcaga gcaattatga cctctccagc aacaaatata acctggatg gaggaatcac 240  
cctaacctca gatggtccag ccctcagcaa caacaacagc agcctgctcc ttccttcag 300  
aatgctactg gtccaagcag accatacatt cctccaccaa tccacaacag caacaactcc 360  
agatacagtc aacagttgaa gtctccaca accttctctg aagacatgtg 410

<210> 10456  
<211> 390  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10456

agctggtagg gntaaagtct catgattgtc tcttgctcat gcaacaattg atagccgngg 60  
 ctatacgaga catcttgcca aacaaagtca ggtagcgat aactcgctg tgetntttat 120  
 tccatgctat atgtagcaaa gtcattgac ctgtcaagtt tgatgagttg gaaaatgagg 180  
 ccgcaattat actgtgccag ttggagatgt attttccccc tgetttcttt gacatcatga 240  
 ttcacttgat tgtgcatctg gtcagagaaa tcaaagtgtg tggctctgtt tatctacggt 300  
 ggatgtaccc cggtagcgca gtcattgatg tcttaaaagg gtatacaaag aatctatttc 360  
 atccagaagc ctctattggt gagagggaca 390

<210> 10457  
 <211> 420  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10457

ctcacctatt aggcttaaat tctganatat acccccctcc ttacctctcc ctttgatgct 60  
 ntacatggag tacttgaagg aagtggaagg aaaaactgtg catgattatc ttgaggtaaa 120  
 gatgggtaaa atgacaaaagc caataggtgt ggaaggacca gtgatagtgg gtgctggtcc 180  
 atcagggcctt gctgcagcag catgtcttaa acagaaaggc attccaagcc taatccttga 240  
 aagggatgat tgcttggtt caatgtggca gctcaagact tatgaccgac tatgccttca 300  
 tctacctaag caattctgcc aactccctct aatgccttcc ccccaaaact ttctcttcta 360  
 tccaaccaa caacaattct tggncattt taaagcctat gctgaccatt ttgacataaa 420

<210> 10458  
 <211> 295  
 <212> DNA  
 <213> Glycine max  
 <400> 10458

cacatagaaa tgagagcgat ctaggctcct tatatcatat tatcgtttta atcaatctat 60  
 agttttttaga aattcttcac gaggttctaat aatagttata atatctactt aaacaacaat 120  
 tatgaaaaat ctattttcat attttgttcc ttcatgaaaa tacatggaca aataggatcg 180  
 attttatatt ctctctttag gaaatactca ctaagtgtat catactacat gcgacttgat 240

tgatttagcc tatatgaagt actcttcttg agaatatgta ttatttggca aatta 295

<210> 10459  
<211> 417  
<212> DNA  
<213> Glycine max

<400> 10459

taagaaatct atatatggtt taaaacaagc ctttcgttat tggtgcccta agtttcatgg 60  
gataatttct tcatttggtt ttgatgaaaa ccccatggat caatacatat accacagggg 120  
cagtgggagt aaaatatgtt ttcttgtttt atatgtagat gatattttac ttacagccaa 180  
tgaccggggg ttgctacatg aggtgaaata atttctttct aagaattttg acatgaagga 240  
tatgggtgat gcatcttatg tcattggcat taagattcat aaagatagac ttcaaggat 300  
tttatgtcta tcacaggaag cctatattaa taaaattata gagagatttc agatgacaga 360  
ttgttcacca agtgtcgtc tcattgtgaa gggatgtagg tttaacttga atcaata 417

<210> 10460  
<211> 382  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10460

agctcaacac aaggcatcg aagaggggtg attttctana gcaattccct tatgttatca 60  
aacataatat gggaaatggt aatattgcat ccgatgctct ttctcggcgc catgcattac 120  
tttctatgct cgaaacaaaa ttgattggtc ttgaatgttc gaaaagcatg tatgaaaatg 180  
atgaaactct tggagaaatt tttaaaaatt gcgaaaaact ctcagaaaac tggttcttta 240  
tacatgaatg ctttctttta aaaaaaacia actgtgcgtg cctaaatggt ctactagaaa 300  
tatgcttggg tgcaagcac ttgaaggagg tctaattggg cattttggty ttcacaagac 360  
tctataaaca tttcaagaac ac 382

<210> 10461  
<211> 433  
<212> DNA  
<213> Glycine max

<400> 10461



acggacacta tgaaactaag cttgattctt aagaatgtcc ttatttatat tatacacatt 60  
 gttttgctca tcatttaca cttgctcttg ttgcttctgc taaagtagtt gatgtacatt 120  
 tttttttcca aaacttgaat atgattgtaa atgttatgtg ttcttgtaaa cgcaatgatg 180  
 agttacaagt ttcttatgta actaaaattg ctcatttggt tgcaaatgtg gatattgaga 240  
 ctagaaggag agctaataca attggcacac tatagagacc tagagatagt agatgaagtt 300  
 cttatttcta ttcaatttgt agtcttttac gcatgtataa ctatttcagt tcttgaagat 360  
 ttagctgtta aaggatctac ttttgcctaa taaggatgatg ctactatgcc tcgaaagaat 420  
 tgatttcatt tga 433

<210> 10462  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10462

actaagctac acagaatcgg atgtatatcc tgtgagcata ttttactact ctaactggaa 60  
 gaaccccttt ggtgctagtt agagatatga aatgtgcatt ggaaaaggaa aattttaaag 120  
 caatcttgga cttttcatct ggtgaatggc cgctntttca aaccgaacag ctggcatatt 180  
 tagcattgag gtgttgtaga aagacttggt tgaaccggcc agaccttggt tcagaaatct 240  
 ggagtgttct tgaaccattc aaagctactt gcattgacac gtcacacat ttgatttcta 300  
 agaagcttcg tcgtgttcct tccattntg tgtgccccat tgtccagggt aagatcttaa 360  
 tttttcacat tcattctttt taaaaaaact ggtctttatt gtatggaaaa t 411

<210> 10463  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10463

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 aatggatggc gcctcctctc acctcttctc ctttgtcttc cgctgcatct ccattggtga 120  
 aaatcaccat tgaaggacct cattgaagct caaagatcca gcctccatag aagctccaca 180

agcaagcttc catcaaaatg gctcgaagcg gcttcctaca ccaatgtcac gaggagtgtg 240  
 gtggtcagat tcatcaagag ggaactgatt tgtcggtagc gactccctag gaagatcatt 300  
 accgacaatg gtaccaatct gaataacaag atgatgtagg aaatgtgcgc ggatttcaaa 360  
 atccagcatc acaattccac gccctatcga ccaaagatga acagagctgt ggaagca 417

<210> 10464  
 <211> 419  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10464

tgccaatgct ctattggcta atgagtcggt ccattccttc gaattccaat cgaatcatga 60  
 gtcacacat aaataactcc agcttcacac agtgcagaaa tccatatggc aactctcacg 120  
 tagtcagtga agacaaaggc catttagatt ttgctgaaac aaatttcttg tagcatctgc 180  
 agggcttttt ggagtgtatg tatgaaagct gaaatttaat tagaagggtg gtcaataatc 240  
 cagaaaaaat gatggaagtc aagttttatt tatcttaaaa ctttgaaggc tatacatgca 300  
 tgaagcaaaa agatggatga tgagtaaaga tgcaatgtac ttaatatgaa ttntaattgt 360  
 aattaggaat gttaatgaat ataacaaacc atggaaatga atcaccatca ttcagtaaa 419

<210> 10465  
 <211> 446  
 <212> DNA  
 <213> Glycine max  
 <400> 10465

ttaagcaccg cagctgcagc tctcatccac agcattccat ctgtgttctt attagtaaat 60  
 ctgatgcact tgccacaatt actaatgatt ccaaattatc atgattcttc actagttcag 120  
 atatcaattt tacaatccgc tgattgattc tccacaactt ctgacctaga ttgtcatctt 180  
 tggcaatcca tggtgtcaat tctttctcgg cctgacaagc aacaagtcac gggatgaaaa 240  
 atgaaatatt ttaaaaaaat ctacaaaatg gaagctgatt tggaacacag gtttagatgag 300  
 ctcttctgca taagatatct aaactttcta tacattaaaa gctatgtctc atgtgggaat 360  
 ataatatggt aattcaaaaa ttctgtagcc tcgcgcgata attcctaaca attcttgact 420

<210> 10466  
 <211> 226  
 <212> DNA  
 <213> Glycine max

<400> 10466

gcattctgag agatgcttct gagcctgacg ctgagagaga tgttcaacat cttcccccca 60  
 gaagtttctg tggctgatgg cataagaatg tccaacatcc tccgctccaa tgctgaagcc 120  
 ctccctcacc cagtgaagag gaatcaacgg aagaagagga tcaagccgca taggagaccc 180  
 ctgcaccaat ggcaccagaa cctgctccag gagacctcat tgacct 226

<210> 10467  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10467

tgcagctgga ttcctttagt agggaaatcta tccttcctaa gatggagcca aacccagtc 60  
 cccttattaa gaactagctc tnttcttcct ctattgcctt tagttaaata caccttgttt 120  
 ggttctctat ntggttctta accctctcat gcaacttctt taaaaactct gacctagatt 180  
 ccncttcttt atgtataaaa gaagtgtcta gtgggagggg aatgaggtct aacgagttag 240  
 gggattgaac ccatagacat cctcaaaagg ggactgcttg gtggttctat gaaccnct 300  
 gttgtaggca aattctacat gaggaagata ctcatoccaa gacttatggt ngcctttcag 360  
 atgaaccctt aaaagggtgg ataaagacct attcactacc t 401

<210> 10468  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<400> 10468

ttagcaactc tatgcacaac ccatacttc tgggtgcaagg atgacaatga cctgttacaa 60  
 aagtggctct cctagtctact gataatggct ctaggcacac caaacttgca aaaatgttc 120  
 gatctcaca aatccacaac aactttagaa tcattagtta tgggtggcctt agcttcaacc 180

cacctagaaa cataatcaac aacaagcaag atatatgaaa aaccatgaga aataggaaaa 240  
 agacctataa aatcaacact cgaaaccagc gaggctgaca gttgctccaa aatagctttg 300  
 tcgaccctct ccacatcggt caatagatcc ttgtcaaaat acttgaactt ggtgggggtca 360  
 gactgctatt agaacgag 378

<210> 10469  
 <211> 366  
 <212> DNA  
 <213> Glycine max

<400> 10469

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 tagcatcatt tttggcgcta aactgctggg agttggaagc catcttctca attaaatttc 120  
 tggcttcggc aggagtcacg tctccaaggg ctccaccact ggcagcatct atcatacttc 180  
 tctccatatt actgagtcct tcataaaaaat attggagaag aagctgctcc gaaatctgat 240  
 tgtgagggca actggcacat atttttttta atctctccca gtactcatac aggctctctc 300  
 cactgagttg tctaatacct gagatatact tcttgatggc tgtgggtcta gaagcaggga 360  
 aatttt 366

<210> 10470  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<400> 10470

cttctatatt tcagctgatg aagattatatt tatggctact acatgcactc ctctaattgac 60  
 aatagcatca tttctggcac tcaattgctt ggacatagag acagtgtggg ggacacaaac 120  
 actggctgca gcaaagggtca tgtctccaag ggctccacca ctggcagcat ctatcatgct 180  
 tctctccatg ttactgagtc cttcataaaa atattggaga acaagctact ccgaaaatccg 240  
 atggtgaggg caaccggcac atagctttct gaatctctcc cagtattcat ataggctctc 300  
 cccactgagt tgccataatgc ctaaaatata ctttctgacg gctgcgggtcc tggaagcaac 360  
 gaaaattttt tcta 374

<210> 10471  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<400> 10471

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 tggaaccaga aaattttgaa gaagcaatta agaaagatgc ttgggggaag gcaatgcaag 120  
 aggaaataga tgcacttgaa aagaacaaga catgagaaac tggttgagaa gccaaaagac 180  
 aaagaagtta ttggagttaa atgggtctac aagggtgaagc ataatccaga tggtttcagt 240  
 ccaaagaac aaagaaaaa ttgttgcaaa gggctattct caacagccca gtgttgatta 300  
 tgaaaaaggt tgttgcaaac ttgtgtcca catttgtaag agaatgtaat attttataat 360  
 aaatcatcaa ttaagtcac 380

<210> 10472  
 <211> 456  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10472

cttcactaca tcaagaatca cttgttgag tcttctctgn ggctgtctta ctgggttagc 60  
 tccatcctct anatatattc gatgcataca tgtggatggg ctaataccan gaatgtccgc 120  
 cagggtccag cctatagcct tcttattctt cttgagaaca gacaacaact tctcctcttg 180  
 ctcatcagcg agggaggcag atataatcac tggaaaactt ntgctatcat ccaagtaagc 240  
 gtatttcaaa ttgatggca gaggttcaa ttctgggtgtg gtcggctgga tagtggtaga 300  
 aggagatggt ttctcaccct gtacctcata tagaaagtca gaggtatgtg tacttcoccta 360  
 aatatggtta gtctatctg actctatnaa atcaatctca agaggtaaaa caccaccacc 420  
 agacatgcaa tcaatatcac ttctagaatc actctc 456

<210> 10473  
 <211> 291  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10473

gcgtctccat atattactgt ctctaatect acatcgtagt aaaaagttat tgcgttaga 60  
 atgtgctcag agcttctggt ctgaatattg agagtctcga tatactacgg aacacaatcg 120  
 gacatctcag taaaaagtta ttgtcgtttg aatttgctca gagcttctgt tcttaattac 180  
 gagagtctcg atatattacg nggattcatt cggacatcca agtaagaagt tattgccgtt 240  
 tgaatatgct caaagcattc gttgtcaatt acgagcgtct agatatatta c 291

<210> 10474  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10474

ctgcagctaa cnagacatgc tgttctgcat atgaagggtta tatgcagggc attctnnttg 60  
 gattatgatg gaacagtatt gccttccgtt gttaaaactc cgagtcctga tatcattgat 120  
 gttctaaata ttctttgcag tgaccctaag aacactgtgt ttatagtaac tggcagggga 180  
 caaccacgct gagtgaatgg tatgatcagt gtgagactct tggatatagca gctgagcatg 240  
 gttattatct aaagtgagat attctctctc tcaattctgc tgataatgat aatgcacatc 300  
 ctctatttat attttacaag aatgagaagg aagggaacca tatgaggggag aaggaataga 360  
 tatgtagggtt ttcatacatc gacgatgcat atatttgcac catatgtagt ggattagtta 420  
 tctatacatc ctattggtaa gttct 445

<210> 10475  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10475

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 gagaagggct gngtccaaga gagectaagc ccatgtgcta tgccgatgta gttgggtgctc 120  
 caaaaggatg gtacgtggag aatgtgtaca gattgcatgg ccatcaacaa catcacgata 180  
 aagtataggg accccattcc tagactagat gatttgctng atgagttgca tgggtgccaat 240  
 atctnttcat aatatgatct tataagtggc tatcaccaaa tcaggatgaa atagggtgat 300

tggttagtgtt tagctctact gagctttaag agattggcta agattntgtt aatacataag 360  
 cacttagaca atgaatgaaa gctggagttg ctgcacatga tgtccaacgt tatgtcaagg 420  
 aataagatct ggctgcaca 439

<210> 10476  
 <211> 266  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10476

tcggtcttca atttcgagcg tctcgactta ttntgttct caatcagaca tccgagtaaa 60  
 aagttattgt catttgaatt tgctcagagc taaggcattc aagtccgagg gtctcgatat 120  
 attacaggac tcaatcagac attcgagtaa aaaacttatt gccgcttgaa ttgtctcaga 180  
 gctttggtat tcaatttcga acttctggat atattacggg tctcaatcag acatccgagt 240  
 aaaaaagtta ttgctgtttg aatttg 266

<210> 10477  
 <211> 326  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10477

taatgtgtct actatcnatt gtcacgtnt gtttgcatt gaggtgccac ttgagctgac 60  
 aggtctctcc acctttgggc gtattctatg aaagatctgt gccctttgt acacgttcta 120  
 ttgttgcatc ctatcccgaa ccatatcana attgtactga tactgcctaa tgaaggcaac 180  
 cattangtcc ttccaagagt ggactcgaga atgttccatg ttagtgtacc aggtaacagc 240  
 taccocagta agattntctt ggaaggaatg tatcagcagt tctcatctt ttctgcatgc 300  
 nncatcttc cgataatata tcttta 326

<210> 10478  
 <211> 371  
 <212> DNA  
 <213> Glycine max  
 <400> 10478

taaacattca atttcgagcg tctcgatata ttacaggact cttatcagac atccgagtaa 60  
 aaagatatgt tgcgttgaat tggctcacag gctcaacatt caattttgag cgtctcaata 120  
 tattacgaga ctcaatcaga catccgagta aaaagttatt gtcgtttgaa ttggctcaga 180  
 actttaacat taaatttcga gcgtctcgat atattacggg actcaatcag acatccgagt 240  
 aaaaagatat tgtcttttga attggctcag aggttcaaca ttcaatttcg agcgtctcaa 300  
 tatattatgg gactcaatca gacatccgag taaaaagtta ttgctgcttg aattggctca 360  
 taggttgaac a 371

<210> 10479  
 <211> 370  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10479

gtctaatacga gtccattata tctcgagacg ctcgaaactg aatgttgaaa ctctgagctg 60  
 attcaaacga caataactnt ataactcgat gtccgattga gtgacgtaat atatcgggtc 120  
 gctcgtaatt gaatgttgaa cctctgagcc aattcaaacg acaataactc tttatctcgg 180  
 atgtctgagt gagttccgaa atatatcgag atggtcgaaa ttgaatgtcg aacctctgag 240  
 gcaattcaaa cgacaataac tatttactcg gatgtctgat tgagtcccgat aatatatcga 300  
 gacgctcaaa aatgaatgta gaacctctga gccaaagtcaa acgacaataa ctctgtactc 360  
 ggatgtctga 370

<210> 10480  
 <211> 368  
 <212> DNA  
 <213> Glycine max  
 <400> 10480

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 agctcctagc aaattcaaac cataataact ttttactcgg atgtccgatt gtgtcccgta 120  
 gtatatcgtg atgtctgaaa ttgaaaacat aaggctcgag caaattcaaa cgacaataac 180  
 tttttactca gatgtccgat tgagtcccgat aatatatcga gatgtcccaa attgaaaata 240



gaagctccta gcgaattcaa aacataataa ctttttactc ggatgtccga ttgagtcctg 300  
 cagtatatct agacgcttga aattgaaata gaagctctga gcacaatcaa acgacattaa 360  
 cttttttc 368

<210> 10481  
 <211> 450  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10481 .

ttctctacaa ttgcatcacc tctcaatgag ctggtgaaga agaattgtggc atttacctgt 60  
 ggtgaaaaac aagagcaagt ctttgctttg ctcaaagaat agcttactaa agcacctggt 120  
 cttagctcttc ctgactattc taaaactttt gagctagaat gtgatgcctc tggagtggga 180  
 gttggagctg tattgtttaca aggtggggcac cctattgctt attttagtga aaaacttcat 240  
 agtgccaccc tcaactaccc cacctatgat aaagagctnt atgccttaat aagagccctc 300  
 catacttgng aacattacct tgtttccaag gaattngtca ttcatagtga tcatcaatca 360  
 cttaagtaca ttagagggca aagcaagtta aacaagaggc atgcaaaatg tgtagagtac 420  
 ctatagcaat ttccatatgn tatcaaatac 450

<210> 10482  
 <211> 175  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10482

aaataacaat ttagtgccca acttgctcca canagtcctc caaaaaatggc ttatgaacct 60  
 agagtcccta tcaactaaca tgctccttgg ctaaccatgg agtctcacia tctccttgaa 120  
 aacatatcag ccacatggga agcatcatca actcttttac atggaataaa atgag 175

<210> 10483  
 <211> 365  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10483

taatccaatt aaattntata tggggagggtg agcatttgct tatttcaccc cattgtcaca 60  
 tcatatagtc acacttttga catgtccttc atgctttata tgcctcatga cacctaagca 120  
 cacttagtgg agaattttgg aattgatctt ggattagtcg gctgaacat aactaaaatt 180  
 cactaatcat aattagttaa attttgactc caaagtttgg ttccacaaat tcaagtaaaa 240  
 tttgaattga aattcaaat tccctccaat ttttgtgaca cttaggctat aaatagaggt 300  
 catgtgtgtg catttttttg aactttgatc atttgaatat tgaactttag atttcagagc 360  
 tcttt 365

<210> 10484  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<400> 10484  
 tgccgccacg gagtttttcg actatgctct tgtgtggtgg aacaagctac aaaaggagag 60  
 agcaagaaat gaagagccaa tgggtgatag atggacggag atgaaaaaga tcatgaggaa 120  
 gcggtatgtg ccggctagtt actcaaggga cttgaaatc aagctccaaa aactaaccga 180  
 aggcaacaag ggggttgagg agtatttcaa ggaaatggat gtgctcatga ttcaagcaaa 240  
 tattgaagaa gatgaggagg taactatggc tcgatttctt aatggtttga ctaatgatat 300  
 ctgtgatagc tgcaggagtt tgttgaaatg gatgatttgc ttcacaaagc aatccaagtg 360  
 gagcaacaat taaaa 375

<210> 10485  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<400> 10485  
 ttgaatgctc tattcaatgg agttgtactt taatatcttc agactaatca acacttgcac 60  
 agtggccaaa gatgcatggg agatcctgaa aaccactcat gaaggaacct ccaaagttaa 120  
 gatgtccaga ttgcaactct tggctacaaa attcgaaaat ctgaagatga aggaggaaga 180  
 gtgtattcat gacttcaca tgaacattct tgaaattgcc aatgcttgca ctgccttggg 240  
 agagaggata acagatgaaa agctggtgag aaagatcctc agatccttgc ctaagagatt 300

tgacatgaaa gtcactgcaa tagaggagggc ccaagacatt tgcaacatga gagtggatga 360  
actcatt 367

<210> 10486  
<211> 358  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10486

tgctctganc cggctnccctt attcgattgt tctatcattg ggnntagttt cctattcaag 60  
tttactatt cttgaaagat ggccagcaca atcaagatcg agaagttcac aaggaagaac 120  
aatttcaatc agtggcaaat caagatgcga gctctgttga aggaacaggg catctgggca 180  
ccactctcca gcagatcttc caacctagaa gcctccttcc tggagcaaca agaagaaaag 240  
gctcactcgc tgattcttct gtctctctca gatgaagttc tctacgaggt ggctgaagaa 300  
caaactgttg ttgggtgttg gctgaagctg gagaaactct acatgacgaa gtccatct 358

<210> 10487  
<211> 331  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10487

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acatgctcac atctattgct gaggcagatg tggttttcac caacacagca tcagagaatc 180  
cattgatctt gacggaggat gtaaaggacc ttctctctgc caccaatgaa gttgggtggc 240  
gccgcctgta caccaagatt tctgttctca gaaatgtcgg atcatgtctc tcacaccttg 300  
agtctgtgag aggggtacatt gttgatgacc t 331

<210> 10488  
<211> 349  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 10488

gcttatgctg canatatgta caatagacct tctcttctat cagcagaatc aaccacagca 60

gagcaattat gaccgttcca gcaacagata caacctgga tggaggaatc accctaacct 120

catatggtec agccctcacc aacaacaaca acagcctgct cttttcttcc aatatgctgc 180

tggcccatat tgaccatata ttctccacc aatccaacat catcatctac tccagatata 240

accaacagat gatgccctc cacaaccttc cctcgaagaa cttgtgaggc gaatgactat 300

gcagaacatg cagnntcagc aagagaccag agcctccatt cagagctta 349

<210> 10489

<211> 369

<212> DNA

<213> Glycine max

<400> 10489

tctcgatata ttatgtgccc gaatcggctt ttcgtttgaa aaattattac catttgaatt 60

tctcgagagc tttggctggt cagtttccag tgtctcgata tattatgcgc ctgaatcgga 120

cttttgtgtg acaagttatg aacatttgaa tttctcgaga ctttccggtt ttcaattaag 180

atcgtctcga tatgtgatgc gccagaatcg gacttccgtg tgacaagtta tgaccattgg 240

aatttatcga gaccttccga tcttcaattt cgagggtctc gatatattat gtgcctgaat 300

cggactttcg tgtgacaagt tatgaacatt ggaatttctc gagaccatac gttgtcaatt 360

tcgagcgtc 369

<210> 10490

<211> 327

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10490

agcttctaga tatattatgc gccggaatca gacttccgtt tcataagtta tggccatatg 60

aatntctcga gagcatctgn tgcctcaattt cgagcgtctc gatatagtct gcgcgtttat 120

cggacttccg tgtgacaagt tatgaccatc tgagattctc gagggcttcc gatcttcaat 180

ttcaagcttt tcgatatatt atgcgcctga atcagacttt ctgtacacaa gttatgacca 240

tatgaatata tcgagagcct tcgttgttca atttcgagcg tctcgatata atatgcgcct 300

gaatcggact tncgtgtgat agagtat

327

<210> 10491  
<211> 166  
<212> DNA  
<213> Glycine max

<400> 10491

ttatctttta gatctttaag tgcagatttt catgtataat gatagatctc atccagcgca 60  
agttgttgca gccagatac gcacactgct atataaacat gaaagctgca cgagttttcc 120  
accaagtcgg ggattgaaga gttattttgt gagttttggg acttga 166

<210> 10492  
<211> 422  
<212> DNA  
<213> Glycine max

<400> 10492

agcttcctcg tggcttcttt gagaagcttt ctcaagagggc ttctttgaga agctagatcc 60  
ttatctatcc acacccctct attaactaaa ttaacttctt taaaaataat tacggatgaa 120  
aataacgcaa caaatattca aacatcaaac ataattacta atagtatata gatatatata 180  
tatcaggggtg ttacaactct cccacccttt tagaaatttc gtctctgaaa ttaccttac 240  
tcaaacaagg atgggtgagc ttctcacatc tgactttcta attcccatgt ggcattctct 300  
cctgatgcac ctccccagat caccttgacc aacagaatct ctttccctct taggtgtttt 360  
gtttgcctat cctcgatcct caaatgcaat gtttcatatg tcaaattctc cttcacttgt 420  
ac 422

<210> 10493  
<211> 414  
<212> DNA  
<213> Glycine max

<400> 10493

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tttctatcaa agattctaca catgttggtc aactgtgcaa agttatgaat accgtgataa 120  
tttaccatca tctttacttc tggtcgaagg ccattgacaa atttcacgca ttggacctc 180

tccccagctt cccctgata atgaggaaaa taccttacia gggttctcaa cctcgccga 240  
 cactctgcca ccgtcact ttcattgttc agctcaayaa actccatctc ctctctattc 300  
 ttcacatctt ctggaaaata cttctccaca aaagtttgtc tgaaagtctc ccattggaca 360  
 acaacaccac ctgctccctc taaacgtggg cgagtgttct cccaccagta ctcc 414

<210> 10494  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<400> 10494

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 atataatgag accctcgaaa ttgaatgttg aagctcttag attcaaacgt caataagtat 120  
 ttactccgat gtctgatttt gtcccgatcat atatcgagac actcgaaatt gaatgttgaa 180  
 gctctgatcc aattcagacg acaataactt tttactccga tgtctgattg agtcccgtaa 240  
 tatatcgaga cgatcgaaat tgaatgttga atctctgacc aaattctaac gacaacatct 300  
 ttttactcgg atgactgatt gggctctcga acatctcgag acgctcgaaa ttgaatgttg 360  
 aacctccggg ccaattcaaa cgacaataac attttactcg gatgtctga 409

<210> 10495  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<400> 10495

agctttgtac gttgacgtag gtgttattga acaaatataa cacatcccaa aacatgaggt 60  
 ggtaaaataa ccctgtaagg aaggatacaa tgaccagaca atacatctag aggccttcta 120  
 aagttaagca cactagaagg ggttcaatta atcaaataaa ctgcagatct cacagcctca 180  
 ccccataaat gagatgggac attatcatct atcaaaagtg atcttgtcac ctctaataata 240  
 tgtctatttt tctctcagc cactccattt ttttgtggtg aataaagaca tgtggtttga 300  
 tgcaagattc cattagagat cataaactct attaatcag tcttaaaata tccccctca 360  
 ttatctgac taatgacctt agtatatgtg ttaaaatata tagctatcat ctgatgaa 418

<210> 10496  
 <211> 352  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10496

tcaacatcag accacttcca gggatgatga acttcttcac atggacttga tggggcctat 60  
 gcaagttgaa agccttgagg gaaagaggta tgcctatgtg gttgtggatg atttctccag 120  
 atttacctgn gtcaacttta tcagagaaaa atcagacacc tttgaagtat ttaaggagtt 180  
 gagtctaaga cttcaaagag aaaaagactg tgtgatcaag agaatcagga gtgacctggt 240  
 cagagagttt gagaacagca agtttactga atactgcaca tctgaaggca tcaactcatga 300  
 gttctctgca gccattacac cacaacaaaa tggcatagtt gaaaggaaaa ac 352

<210> 10497  
 <211> 313  
 <212> DNA  
 <213> Glycine max

<400> 10497

tgaggggtga acagatgcct ggggtaacct gggtacctat ctgtccttga atcagaagtc 60  
 tgtacctgtc gcaagactct gtgggtttatg ctctctgtcc aaccaccaca caaacctttg 120  
 cccttctatg caacaatctg aagcaattga atagcctgaa gcttatgctg caaacatcta 180  
 caatagacct cctcaacctc agcagccaaa tcagccacaa cagaacaatt atgacctctc 240  
 ccgccacaag aacaatcccg ggtggaggaa tcatcccaac cttaaattggt cgaatccttc 300  
 caacagcaac aac 313

<210> 10498  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10498

agcttntana atttatatca aattatctat gangattaaa gaatctatcc atgttgcttt 60  
 agatgagact aaccctataa ggccaagaaa ggaaacactt gatgatatta taggttcatt 120  
 agaagacatg cacattgatg agaaagggtc caaaggcgca ggaaatggaa atgaagaaga 180

ctgtcaaatt gatgaaaata aaacaaatat agatcttcca agagagtgga gaacttcaag 240  
 acatcatcct cttgataata tcattggtga catctcaaaa ggggtaacaa ctcgacactc 300  
 tctcaaagat gcatgcaata atatggcttt tgtttcctta attgaaccta aaaattttaa 360  
 tgaaatcata attgatgaac attggattat t 391

<210> 10499  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<400> 10499  
 agcttgaggg aaaacttgat gccttgggtc tcctagtaac tcagcttgcc atgaatagga 60  
 aatctgctcc tgttgcaaga gtctgtggtc tatgttcttc tgtagatcac cataaagatc 120  
 tttgtccttc tttgcagcaa tttggagtca atgagcaacc tgaagcttat gctgcaaaaca 180  
 ttataatag acccctcag cagcaaaacc aacaacagta gaataattat gatctttcaa 240  
 gcaacagata caatctaggt tagagaaatc atccaaatct gagatgggca agtctctcac 300  
 aacaacaata gcatgtcctt cttttccaga atgttgctgg tccaagcaag ccatatgttc 360  
 ctctccaat acagcagcag tcacaacaaa gacaacaagc aactg 405

<210> 10500  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<400> 10500  
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 ttataagat ctttaaagtt atatatattt cctaagtgtt ggcaaagaac attatccaac 120  
 ttttgagatt gagtaagggt atgtgaaaaa gtaaactgtc atcgtgtctc atacagcctt 180  
 ttatatctta tctcggttta tcactcttct cagccttttg tatattaatt taaattttaa 240  
 tatgaattat ttttaaatac actaaaatac tatactattt tttgttggtta gacttctcaa 300  
 ccttcattta tatgtgtaac aacctatatt gaattaagga ttaggatttt tgttcactctg 360  
 gatatgatga tattgaatcc attcttgtcc tcgagataaa atatctagaa ttgatagttg 420  
 tg 422



<210> 10501  
 <211> 355  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10501

tyntgngtgt gtatgataat gtcctaatag tattcctcta tgattgtttg catgacacca 60  
 acaatagcaa tggtgttgtt cccttgatcat ggaaacgaag actccacatc tgcattgggg 120  
 tggctcgtgt actacatata ctacatctat tttggaacca acatacctat cataactccat 180  
 acagtgaat caagcaacat tcttttgcc ctgaatttgg tgccatagtgg cagattttga 240  
 gttttgcaag aagtcaccaa gggattcaat gccaaaacca ccaagagttg agttgagggg 300  
 gaacttaata acttttgggt ggtgtaactg attctgaatc ctaactttgg tcttg 355

<210> 10502  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<400> 10502

tttgagcaat tcaaatggtc ataacttttc ctccggggtc agattcaggc gcataatata 60  
 tccagagcga agaaattgaa caacggaagc tctcgagaaa ttcaaatgct cataactttt 120  
 aacacggaag tccgattcag gcgcataata tatcgagact caccgaaattg aataacggat 180  
 gctctcgaga aattcaaatg gtaataacct ttcactcgga tgtcagattc aggtgcataa 240  
 tatatcgaga cgctcaaaat ttaacaatgg aagctatcga gcaattcaaa tggtcataac 300  
 ttttcaactg gaggtccgat tctggcgcat aatatatcta gacgcacaaa atttaactac 360  
 ggaagcta 368

<210> 10503  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<400> 10503

agcttaacaa tcagtgtcat acttttgttt ataacaaagc aggtataaat atgcaatact 60

agactcaaaa tatgcaacaa acactagacc taaatcagtg tcacagaaat tggaagaaaa 120  
 tattttatcc aagcacagac ttcaagcctt attccatgta ttggggggaa gttatggctg 180  
 gccatatggg tagagggtgc atagaagagc aggtatggag gaagggacct tggactgctg 240  
 aagaggacag gttgcttggt gagtatgtca ggttgcatgg tgaaagcaga tggaaactctg 300  
 ttgctaggct tgcaagtaag aaacacaaaa cttttttcac tgttttggtt cttaatatat 360  
 atgattggat tttcacattt ataagtgaca atatagcaaa aaaacaactg aaattgtttt 420  
 caact 425

<210> 10504  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<400> 10504

agcttagccc tagaggggat ggttcttttc atgttttga gaggatcaat aacaatgcct 60  
 ataggttga cctcccagaa gagtatggag tcagcaccac ttttaacatt tctgatttaa 120  
 ctctttttgc aggtggagct gatattgagg aggaggaact aacagatttg aggtcaaatc 180  
 ctcttcaagg ggaaggggat gatgcaatcc tccctaggaa gggaccaatc actagaacca 240  
 tgagcaagag gctccaagaa gattgggcta gagctgctga agaaggccct agggttctca 300  
 tgaaccttag ggtagatttc tgagcccatg ggccaaggtt gggccaatt atctttgtac 360  
 atattagact aagatgtcat tatatttggc ccttgatat agggctccat attgt 415

<210> 10505  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<400> 10505

aactaattga taaccgatg aagagcattt ttggggccgt tctcttctta caggttccca 60  
 tagacacttt ataactgatg ttgccatgat tacatttggc atacatatca atcaaggcag 120  
 ttccacaat gacctcagac tcgagctttt gccttattgc ccatgcatgc aggcacttgc 180  
 catatttgaa ataaaccaa ctgccacatg ctgatagaaa agaagctatg cttaccgaat 240  
 caggtttaac tccttcacac tgactcctac gaaaagcatc agatcacttc tatcatcccc 300

attcaaaatt atccattaat caaagtagtc catgtaacca catctttctc atccatcctc 360  
 ttcgctagca accatgc 377

<210> 10506  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<400> 10506  
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 ggcgctggag cggcagggcg tgacggacgt cttegcctac cccggaggcg cctccatgga 120  
 gatccaccag gcgctcactc gtcctacctc catccgcaac gtctctctc gccacgaaca 180  
 gggcgggcgtc ttgcgcgcgc agggctacgc ccgctcttcc ggctctcccg gcgtctgcat 240  
 cgccacctcc gggcccgcg ccaccaacct cgtctccggc ctgcgcgacg ccttgcttga 300  
 cagcgctccc ctgctcgcca tcaccggcca ggtcccccgc cgcctgctgc gcacagacgc 360  
 cttccaagaa acccccatcg tcgaggtaac acgttccatc actaagcata actatctc 418

<210> 10507  
 <211> 308  
 <212> DNA  
 <213> Glycine max

<400> 10507  
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 atcgagacgc tcgaaattga acaatggaag ctcttgagca attcaaatgg tcataacttt 120  
 ttaactcagat gtctatttca ggcacataat atatcgagac gctcaaaatt gaacaacaga 180  
 agctctcgag aaattcaaat ggtcataact tttaactcgg aggtctgatt gaggcgcatt 240  
 atatatcaag acgctcgaaa ttgaacaatg gaagctcttg agcaattcaa atggtcataa 300  
 cttttcac 308

<210> 10508  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<400> 10508

agcttcatt gttcaatttc gaggttctcg atatattatg cgtttgaatg agacctccga 60  
gtgaaaagtt atgaccattt gaattgctca agagcttcca ttgttcaatt tcgagcgtct 120  
cgatatatta tgcgcctcaa tcggacctcc gagtcaaaaag ttatgaccat ttgaatttct 180  
cgagagcttc cgttgttcaa tttcgagcgt ctcgatatat tatgcgcctc aatcggaact 240  
ccaaaaataa agttatgacc atttgaattg ctcaagagct tccattgctc aatatcgagc 300  
gtctcgatat attatgcgcc tgaatcgga ctcgagtgaa aaagtattga ctatttgaat 360  
tgcttaagag cttccattgt tcaatttcga gcgtctcgat atattatgcg cctg 414

<210> 10509  
<211> 266  
<212> DNA  
<213> Glycine max

<400> 10509  
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gagcttaaac ttctacctat ttgtttggtt tttggcttat cttctgtcaa aggaaaaaatg 120  
tctacatgta gcatatttac agggccacct tactttgaaa cagattccacc tagaaagaat 180  
ttgctagagt gagaaaaaca gttgaacatc attggaggaa ttgctcaata acttctatac 240  
cttccaagta ttcaagacta aaagtg 266

<210> 10510  
<211> 352  
<212> DNA  
<213> Glycine max

<400> 10510  
taaatatcga gcgcactcga tatataacga gactattagg acttccgagt gaaatgttat 60  
tgtcgttcga ctttgctacg agcttaggtt ttaaaattcg agcgtcacga tatattacgg 120  
gactcaatca gacttccgag tgaaatgtta ttgtcgttcg aatttgctac gagcttcggt 180  
tttaaaattc gagcgtctcg atatattacg ggactcaatc ggacttccga gtgaaatgtt 240  
attgtcgttc gactttgcta cgagcttcgg ttttaaaatt cgagcgccac gatataattac 300  
gggactcaat cagacttccg agtgaaatgt tattgtcggg cagaattgct ac 352

<210> 10511

<211> 308  
 <212> DNA  
 <213> Glycine max

<400> 10511

taagcctata gaaggcaagc atatggcctt cttgatccac acgcgacaat atcagaaaacg 60  
 agtgaagaac acttttgaca agaaggtacg cccgtgcccg ttcacogaat gggactcggc 120  
 gctgaagaaa gtctcccaag ctttgaaaga tatcagaaga aagtgtgccc caaactatga 180  
 tgggcctttc attgtaaaaa gggctttctc ccgagggggc ctgggtgctcg ccaacatgga 240  
 ttaactaggag ctaccttttc ccgtgaactt cgacgttgtc aatcgatact acgcttaaca 300  
 tctggggc 308

<210> 10512  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<400> 10512

agcttgcatc ctgagacttt ctttttgata tatacacatg ttgcttatga gtacatggct 60  
 aatggttcat tggataaatg gatattcaac aagaacaaag aggaatttca gggggattgg 120  
 gatacaaggt ataacatagc acttggaata gcaaaaggac tgccttatct acatgaagat 180  
 tgtgactcaa acattattca ttgtgacatt aaaccagaaa acgtgctcct agatgataat 240  
 ttcagggtta aggtttctaa ttttggtttg gctaagctca tgaaacgtga acaaagacat 300  
 gttttcacia cacttagacg cactataggg tatcttgac ctgagtggat cacaaactgt 360  
 gccatatcag agaaaaatga tggtgatagc tatggtatgg tgttgctaga gatca 415

<210> 10513  
 <211> 334  
 <212> DNA  
 <213> Glycine max

<400> 10513

tgttacatat gttctcaaca ccaaaacgtt tggtgtatct agtaagcatg tctgcaagtt 60  
 ggtcaccgga gttgacaaag tcaatgatga tttctcctga gagcaccttt tctctcacia 120  
 agtgacaggc aatttctatt tggtagtct gctcatggaa gatcggattt gatgcaaccg 180

ggagagcaac ttgattgtcg cataatatct tgagtgtctc caatttttagc tggtaggagaa 240  
 tttgcctagc catgtaacct tggatgcaat agctgccata gcatgacact tagctttaac 300  
 actggatata gcaaatggat tctgcttggt actc 334

<210> 10514  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10514

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 atttcgatg caactttctgt catggtatag tattcaactt cagcgctgga tctcgcaact 120  
 atattttgct tcttgcttct ccatgagatc aaattccctc caagcagaac acaatagcct 180  
 gaggtagaac tctgtgctaa tcagcactag agtaacaaac aattttgaca ttgtcttcgt 240  
 cttcatatag aaatccgtgg cctggtgctt tcttgatata tctgagaatg cgcattgaaa 300  
 cattccaatg gctatcacia ggggcattga gcaattgact taacactctg caaaagtgat 360  
 gtctgggtctg gtgacactga ggtaactgag tctgccaaca agtttctgat atcttcttg 419

<210> 10515  
 <211> 355  
 <212> DNA  
 <213> Glycine max

<400> 10515

tttgcctaat tcgtgttga tctcgataat gcttctcaaa atcaattagc aagaggtcaa 60  
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 ataactattt atactggaac gaatgggtat cttgattcat tagaaattgg acaggtaagg 180  
 aaatttcttg ttgagttacg tgcttactta aacacgaata aacctcaatt caaagaaatc 240  
 atatcttcta ccaagacatt cactggggaa gcagaagtcc ttttgaagga agctattcaa 300  
 gaacagatgg aactctgttt actacaggaa caagtcgaaa aaaattgatt aatca 355

<210> 10516  
 <211> 351  
 <212> DNA  
 <213> Glycine max

<400> 10516  
 gggggggaac gctagctccg atagaaaagt tatgaccatt tggattgcc c aatagctgtc 60  
 atagaacaat ttccagcggt tggaatgat atgcgccttg atcggacctc cgagggaaaa 120  
 gttttgacca cttgaattgc tctagagcct tcgttgatca atttcgagcg gcttgagata 180  
 ttatgcgcct gaattggacc tcctaattaa agctttgacc atttgcaatg ctcagagcg 240  
 ttgatagtc aatcacccgc attttataag tgtatgcacc tgaattggat ccccgagtga 300  
 gaagtttga ccattggaat tgaagaaaag gaatcactgc ttgatcttcg a 351

<210> 10517  
 <211> 226  
 <212> DNA  
 <213> Glycine max

<400> 10517  
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 gggctgttgt cgttgctgga ttggcggagg aatgtatggt ctgcttgggc catcacccat 120  
 ttggaaggaa cgacctgct actcgtgttg ctgtcgaggg ctataccatc tgagattagg 180  
 gtgattcctc cccccaacgc tgcttctatt gctggagagg tgataa 226

<210> 10518  
 <211> 362  
 <212> DNA  
 <213> Glycine max

<400> 10518  
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 ttttcaattt gggccttcac ttgctcatgc aactcttca cataactcagc tttagcctgg 180  
 gcatccttat gcttaaacad agcaatgtta ggcataaggc acaaataag aggagtcaaa 240  
 ggattaaatc catacactat ctcaaatggt gaacaattag ttgtgctatg gacagcccg 300  
 ttataagcaa actcaacatg aggcaaacag gcttccaag atttaagatt tttctttaaa 360  
 ac 362

<210> 10519  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<400> 10519

agcttcaaga attatggcct catttaacta cttgtttctc gagggaaatt ctataaacag 60  
 acctcccatc tttaatggac tgggttacca ctactagaaa acccgcacgc aaatctttat 120  
 agaggcaata gatttaataa tttgggaagc catagaacaa ggaccttatg ttccctctat 180  
 aatagccgga agtgcaacaa tagaaaaacc tagagcagat tggactgagg aagaaagaag 240  
 attagtacaa tataatttaa aggccaaaaa tattattaca tctgccttag gaatagatga 300  
 atactttagg gtttcaaatt gtaaaagtgc taaggatatg tgggatacac tacaagtaac 360  
 acatgaaggc acaacagatg ttaaaagatc taggataaac actttaattc gtgaatatga 420  
 actt 424

<210> 10520  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<400> 10520

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 gttgttgttg ttggattggt ggaggaatgt atggtctgct tgggccagca gcattttgga 180  
 aggaaggagc aggtactgtg tgttgctgtt gagggctaga ccatctgaga ttaggggtgat 240  
 tcctccatcc aaggttgtat ctattgctgg agaggtgata attgttttgc tgaggttggt 300  
 tttgctgttg aggttgagga ggtctattgt aaatgtttgc agcataagct tcaggcttct 360  
 caattgctcc aggttgctgc atggaagggc aaaggtctgt atggcgggtca gca 413

<210> 10521  
 <211> 258  
 <212> DNA  
 <213> Glycine max

<400> 10521

tgtgctctt cactgtctga atatgaatgt attttataga tccaaagacc cttagggtct 60



ttgctgatgg ctctctcccg ttccaagctt caattggagt cttgtctttt acagaacttag 120  
 ttggacatca gttgagtatg taaacagcag tgtaaaactgc tttagcccag aatgtgttat 180  
 gtacttgagc atcgatctac ccactctccat aactgagcaa ttctttctct ctgacactcc 240  
 attttgttga ggaggata 258

<210> 10522  
 <211> 344  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10522

taacaaaagg catgtgaagc gggtggaatt tctagagcaa ttcccttatg ttatcaaaca 60  
 taaaaaggga aaaggtaata ttgtagccga tgctctttct cggcgcatg cattactttc 120  
 tatgcttgaa acaaaattga ttggtcttga atgtttgaaa agcatgtatg aaaatgatga 180  
 aacttttga gaaattttta aaaattgtga aaaattttca gaaaatgggt tcttttagaca 240  
 tgaaggcttt cttttcaaag aaaacaaatt gtgtgtgcct aaatgttcta ctgaaatnt 300  
 gcttgtttgg gaagcacatg aaggagggtt aatggggcat ttg 344

<210> 10523  
 <211> 306  
 <212> DNA  
 <213> Glycine max

<400> 10523

tataccaaat tcaaacgaca ataactttat ttttgatgtc cgattgagtc ccgtaataata 60  
 tcgagacgct aaaaattgga aacggaagct cgtagacaat tcaaacgaca ataacatttt 120  
 actcgaatgt cctacagagt ccacgaatat attgagacgc tccaaattga aaacagatgc 180  
 tcgtaccaa ttcaaacgac aataactctt tactcgatg tctgatagag tcccttaata 240  
 tatagagatg ctccaaattg aaaacagagg ctctgtggcaa atttaataga caataacttt 300  
 ctactc 306

<210> 10524  
 <211> 482  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10524

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tagtgtagtt aggaggtagc ctccctcga agtaaggcta gttatcttct tctctccct 60
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gactattaaa cagatgagac caaaatgtca gaaagttttc attggactaa tatcccaaat 180
tgtgtttcat ttaaggggta aaatataatt aattttcatc ttttcccttt ttttatgggt 240
tcacttatta actataaaga ctaaaaggga taagtttgga aactatagag actaaatgag 300
taattaaacc tttnttattg ttacaagcat aacattacaa ttaataaaca tnttaaaaaa 360
taggaaagca agettaagtt agaacaaaca taataataag cataatatng attaaaaaac 420
ataatttatt tggtgctcca gaaattctaa tgtgacaata tntccaaaat atgatattca 480
ac 482
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<210> 10525

<211> 417

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10525

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tcaaatccgc tatgatcaac accccagttc tggcccttcc catattccat gaaccatatg 120
tcgtcgagac agatgcttca cgcactgcca tgggggctgn gctctcttag caagggcacc 180
cattagcgtt cttcagcaag aacttcaacc ctgcctgct taatgcgtca acctatgtga 240
gggaactcca tgctatcaca tncgcagtgc gcaaaaggag gcaatatctc ctgcgcagct 300
cttcacgac cataccgac acaagagtct tcgcgagcgt atgactcagg tgattcaaac 360
gccagaacag cactatcacc ctttcaaata gctagggctt gatacacaaat tcaatac 417
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<210> 10526

<211> 436

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10526

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 ggccttgatt ntctcggggt ccacttgac ccatttcta ctaattacaa accctaagaa 120  
 aactatatta tcaacacaaa aggtacactt ctctatattt gcatagaggg tgnntttcct 130  
 aaggactgaa agaagttgcc taagatgtcc taagtgatta tctaggctcc tactgtgtcc 240  
 taaaatatca tcaaaataaa aaactacaaa tctacctatg aaatccctta agacatgatg 300  
 cataagcctc ataaaggtgc ttggtgcatt agtaagccca aaaggcataa ctacttctct 360  
 atgcaaatat agagaagtgt accttntgtg tagataacta cttttcacac tactnttcaa 420  
 tngaaacttc ataact 436

<210> 10527  
 <211> 441  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10527

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 tcttcatatt atttaataata tattatgtcc catattatat gacacgttaa aaagtatat 120  
 aagtcaatag aaatatctta ttgtgcgggg aaatttgaac aaaataacat tgtttttact 180  
 taaaaattgt caaaatcctt ttctctgtcc ttattttttt tcttctatat ctgtattgtg 240  
 gaaagtatta tgaaaattgt acgcaaaaat taaagattat aaaacttaaa cttccaatac 300  
 ccgaaaaaaa agtctcgaac ttccatcata ttcataggaa aaaaaactag taatatattc 360  
 tagcattaaa aaaaggaaaa atgaagccaa aaaggagaaa gaatgtatat atattctaga 420  
 tcactttcta tatgggatcc a 441

<210> 10528  
 <211> 375  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10528

ngccgccaca gagntttctg actatgtctt tgtgtggtgt aacatgtctc aaaaggagag 60  
 agcaagaaat gaagagccaa tgggtgatac atgggcggag atgaaaagga tcatgatgaa 120

gcgggatgtg ccagctagtt actcaaggga cttgaaattc aagctccaaa aactaaccca 130  
 aggcaacaaa ggggttgagg agtatttcaa ggaaatggat gtgctcatga ttcaagcaaa 240  
 gattgaagaa gatgaggagg taactagctc ggtttcttaa tggtttgact aatgatatcc 300  
 gtgatattgt tgagttacag gagtntgttg aaatggatga tntgcttcac aaagcaatcc 360  
 aagtagagca acaat 375

<210> 10529  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10529

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 atagcttaga agttattata ttatatatat aacttataaa ctcgtagcgt ttttcttttt 120  
 cttccatttt tacattagta gtgtgataaa ctctattttt taataattct gtgcattatc 180  
 ctttctaact gttttaatac acatccctac tattattgaa ttttcataac atattcgatc 240  
 tttcaaaata taaagagttt aaggttaata caaaatctaa aactatagtt gcctaagagt 300  
 attntttttt atctactaac aaatagaatt tatactaaaa tttatataat gggcgaagca 360  
 tatgccttga gtccatgcta ttatatctat attatt 396

<210> 10530  
 <211> 466  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10530

agcttcatat gtttatgttt tctggccatt cacaccttat tattactatg cagntaccga 60  
 tcgtccagaa acagcanaag aagctaccaa gttcttcatt attctgaaac aatattccgt 120  
 caatgccgtg tgtgatattc ttgtttaaca agctcttgtc ttggtnttcc tttataaaaa 180  
 aaggaaagtc ttttgaactc ttggaaactg aaaagcatat tatcacatct ccaaacacta 240  
 tgacttcaat caaattgata aaataaatat ttgattttga tttagttttt tagttaattn 300  
 taaaatcttt ccgtttntaa tttataaatc aattcttttt ttagtcttaa taatttttat 360

actttttcgt attatataatg cattccagtg ttagtcttat attatatttt caaatatttt 420

caattatggt taaaataaaa tatgtgttcg tattatctct cataat 466

<210> 10531  
<211> 402  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10531

aagctgcacc gatgaacac agggaccacc gaggggggtc caaggagccg catgaaggcg 60

tgttoganct ccttgccctc nggacccctc tccagctcgt gcacgggttg gttcacaccc 120

atgccgcaga agagcctctg gatggcgttg cacatgcagc acgtgctcac gctgaatatc 180

accaccgcgc tctccgacgc cagcctttct atgcgctcca gcgggtcccc cactaccgcc 240

gccgccgcgt tccgaggggc cggcacgtag ctccccacc acgccgcgc cgctgcttg 300

taatgcattc tcagaagaat tntatgtgat gaaagaatga cagcgaatgt gtatgataat 360

gagagtgaga atgtagtggg tttggcttg tttgtttgtg tg 402

<210> 10532  
<211> 488  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10532

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taatcataat ggactaatta agctaaacta actatggtaa taattctaac taaaactggt 120

tgtaatactc cccctcaagt taggtacata gatgtctaga aggcctaact tggacaaaaa 180

aaagagaatt tacagtggag caatacctta gtgaagatgt agcaagtgtg tgatgagtag 240

ataagtgtac cagcttgata aaaccagagt gcacatattg ccttatgaaa tgacaattag 300

tatctatgtg cttagacctc tcatttgaag ttggattntc agtcaatgca atagctgatt 360

taaattntat canaaataaa attaaaataa anatgtattt aagccttaca atttccaaca 420

agttttgaac taaatatgan agctatccta nttcattac ttcttatatt ctattataag 480

tgtcatat 488

<210> 10533  
 <211> 203  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10533

agcttatata tatcgatacg ctcgaaatta aacatcgta actctcacga aattcaaata 60  
 gtcataactn ttcacacgga tgctcgatgc gggcgcataa tatgtcgaga ggctcgtaat 120  
 taaacaacgc aagctcttga gagattagac tgggtataact ttccacaccg aagctctcgt 180  
 gaaagtcaaa tggacataac ttt 203

<210> 10534  
 <211> 337  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10534

tccatttcaa cttggagcgt ctcgatatat tactggtgtc aactgtacat ccgtgtataa 60  
 agttatgggc gtctcaatnt gtcagagct tctgttctaa aatttgagcg tctctaaata 120  
 ttacgggact caataagaca tctgagtaaa aagttattgt agtttgaatn tgctacgagc 180  
 tctcgttttc aacttgagc gtctcgatat ataacgggac tcaatcggac atccgtgtat 240  
 aaagttattg tcgtttgaat atgctacgag ctccagtttt caatttgag agtctcgata 300  
 tattactgga ctcaatcaga catccgagta aaaagtt 337

<210> 10535  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10535

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 atatatcgat acgctccaaa ttgaanacat aagcccgtag acaattcaaa ggacaataac 120  
 tttttactcg gatgtccgat agagtctcgt aatataatgg gacctccaaa ttgaaatgg 180

aagctcctat caaattcaaa cgacaataac tntntgctcg gatgtccgat tgagtcccg 240  
aatatatcga gatgctcgaa attgaggaca caagctctga acaatattga acgacaataa 300  
atttattctc ggatgttcta ttgagtcccg taatatatcg tgctactcca gattgaaaat 360  
ggaagctcgt aggaaattca aacg 384

<210> 10536  
<211> 429  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10536

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actgtgtcta caacttgcaa gctaagaaac tcgtcatcag tcgagatggt gaagtgtgat 120  
agtagccttc ttggaattgg gatgaagaaa aagtggagaa gaacgttctt ataccgcctc 180  
aactacctca agaagaagct gaggaagaag acccaggtga accacacaac aaaagatca 240  
agatctatca tcaccagagt ctactccaag acgagtaaga tcttttgtga acatatatga 300  
aacttgtaac ttggccatac ttgaacctgg aagctntgaa gaagcgtcac agcatgaagt 360  
atgggtcaag gcaatggaag aagagatata gatgatcgag aacaacaaca catgggagtt 420  
agtaaatacg 429

<210> 10537  
<211> 444  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10537

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tccagctcca agagttgtaa ctntctttnt tcccctgata tagcctcatc aaaattcaga 120  
aatttcaaag cccggtatgc cttaagctct atttccaccg gtaagtggca ggcttttcca 180  
taaacaattt ggaacagaga caggcctata ggggtcttga agacagttct gtaggcccat 240  
agtgcacat ccagtttgct tgaccagtcc ttccaagtgg aagccacagt tttctccaat 300  
attttcttca attccctggt ggaaacttca gctnnggcca tttttttgtg ggtgataagg 360

tgaggccact ntgtgtgtgg catgatagtg gcctagcacc tttngcagtt atgctgggca 420  
 aaaataagaa gccgcacac ttat 444

<210> 10538  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10538

gaagaatagc tctcanactt gtctccttgc aaaggaaactt cctgttgggg gtgatcaang 60  
 gcataagaaa atcccttggg tcaaatggga agtaatatgt ctccctaagg aggatggggg 120  
 tcttgggggc aaagatatct ccaaattcaa tacagctttg atgggtagat gggatatgggc 180  
 tctatcttct aatcataatc agctgtgggc caaaatttta ttgtcaaaat acggggggatg 240  
 gtctgatctt agtagtggga gggataaatc ttggcattct caatggtgga gggaccttcg 300  
 aaagatatat caacaacctg agctcagtat tattcaccag caaatgggat ggaagggtggg 360  
 aggaggggaa aaaataaatt ctggacagat attggtt 397

<210> 10539  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<400> 10539

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 aagttgagcc ttgtatcac tccccatcca aagccttaca aacttcaatg gctcgatgag 180  
 caagggtgaga ggataatcaa tcaacaagtg aaagtgcctt tctccattgg aagatataag 240  
 gatgaagtga tttgcatgt agttcctatg gaggcaggac accttctctt atgtaggcca 300  
 tgtcaatatg atatgaatat catctataat ggccgaaata tgagataccc tcagccctcg 360  
 gaataaagtt gtgtacatcc taacacttca cag 393

<210> 10540  
 <211> 278  
 <212> DNA  
 <213> Glycine max



<223> unsure at all n locations  
<400> 10540

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aagtatgcct atgtgggtgt ggatgatttc tccagattta cctgngtcaa ctttatcaga 120  
gagaaatcat acacctctgc aactgtcaag cactttcaca tctttggaag tccatgttac 180  
attctggcng atagagagca aatgagaaaag atggatccca agaacgatgc acgaatattc 240  
ctgcgatact ctacaaacag cagagcatat agagtatt 278

<210> 10541  
<211> 399  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10541

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atattcatag ggataaagca aagggtgaac tattcttgtc ccaaagcaat tacctcaaaa 120  
aagtgggtga gaggtttagg atgcatcaaa gcaaacctat tagcacacca cttggtcatc 180  
atacaaagct atctgttatt caagcactag aaatagctga agagaggtct aaaatgaatc 240  
acacacccta tgccagtggg gttggaagca taatgtatgg aatggtttgc agcagacctg 300  
acttatctca tgctgtaagt attataagta gattcatggg agatcctggc agcgcacact 360  
aagaagctgt gaagtggaca ctaaggtatc taaatggat 399

<210> 10542  
<211> 363  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10542

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tcactaggag tcccagaaaa taagtcagct ctccaacaag actcatctca aattcagatt 120  
gcatctgttg gacaaaatgt cgaagcatct cattcgacat ccctccaaac acaatgtcat 180  
caacatatat ctgtgtatc atcaagtttt cagcatcttg cttgacaaaag agagtcttgt 240

caattctctc cttctctaac ccttgctgag taaggaactc tgttagcctt tcataccaag 300  
 ctcttgagagc ttgcttcaat ccatagagag ccttcttgag cctgtataca tgatctggag 360  
 gag 363

<210> 10543  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<400> 10543  
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 gcagcaaaga ggctgttttc ctgatgatgt aacatatgtg tgtgtactaa atgcatgtag 180  
 tcatatgggt ttgcatgaag aaggacagaa atattttgat ctcatgggtca gacagcacia 240  
 tctttcaccg agtgtccttc actactcatg tatgattgat attcttggtc gagcacgact 300  
 tgttcacaag gcttatgact tgatagaaag aatgccattt aatgcaacta gttctatgtg 360  
 gcgttcactt ctaggctctt gtaaaaactta tggcaata 398

<210> 10544  
 <211> 487  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10544  
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 gtgatgaaac gaataggggtg tcctctcact gcttgaagca tccaattttt atttttat 180  
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 cgcggtcttt gagccagatg ggcgcccaaa atgcttgccg atgaactcac cggctaacat 300  
 gagctttccg agatcaacgt nggttttcac cccaagtcca ttcagcatgt acacaacatc 360  
 ttctgtagct acatttctg aagctccctt ggcataagga cagccaccta gaccagcaac 420  
 tgaagaatca actgcactga tcccactctg ttagaaaaag aaatcaataa cgtccattaa 480  
 taacact 487

<210> 10545  
 <211> 464  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10545

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 cagatttacc tgcgtcaact ttatcagaga gaaatcagac acctttgaat attcaaagag 180  
 ttgagtctaa gacttcaaag agaagaagac tgtgtcatca agagaaatac gagtgaccat 240  
 ggcagagagt ttgaaaacag caagtttact gaattctgca catctgaagg cattactcat 300  
 gagtctctcg cagccatcac accacaacan aatggcatag ttgaaaggaa aaataggact 360  
 ttgcaagaag ctgctagggt catgcttcat gccaaagaac ttcctataa tctctgggct 420  
 gaagccatga acacagcatg ctatatccac aacagagtca cact 464

<210> 10546  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10546

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 tcaactcgcat gtccgattca agcgtatata atattgagac gctcgaaatt gaacaacgaa 180  
 agctctcgag aaatctaaa ggtcataacc ttctactcgg atttccgatt caggtgcata 240  
 acatatcgag acgctaaaaa ttgaacaacg gaagctctcg agatattcaa atgggtcataa 300  
 ctttttactc ggatgtccga ttcaggcgca cagcgtatcg agacgctaga aattaaacaa 360  
 tggaagctct cgaganatgc aaatggatcat aacctttcac tcgcatg 407

<210> 10547  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<400> 10547

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agatacaagg ggactacttg cccaaaaaat cacttgaaaa tgtattgccg gaaaatgggg	180
atgtattcta gggacaagaa gctattgatg catttcttcc aatatagttt ggccagagca	240
gtggtcatct ggtataccaa tctggaagct tctcgcatcc actcatggaa agatntgatt	300
actgctttca ttaggcagta ctaatataac actgacatgg ctcccgatag aaccagcta	360
tagaatatg	369

468 &lt;211&gt;

<212> DNA

<213> Glycine max

<400> 10548

taagcttaac atcagaccac ttacaggggtg ctggaacttc ttacatggac ttgatggngc	60
ctatgcaagt tgaagacctt ggaggaaaaga ggtatgccta tgtgtgtgtg gatgatttct	120
ccagatttac ctgngtcaac tttatcagag agaaatcaga cacctttgaa gtattcaaag	180
agttgagtct aagacttcaa agagaaaaag actgtgtcat caagagaatt angagtgacc	240
atggcagaga gtttgaaaac ggcaagttta ctgaattctg cacatctgaa ggcatactc	300
atgagttctc tgcagccatc acaccacaac aaaatggcat agttgaaagg aaaaacagga	360
ctttgcaaga agctgccagg gtcatgcttc atgccaaaga acttcctat aatctctggg	420
ctgaagccat gaacacagca tgctatattc acaacagagt cacactta	468

<211> 341

<212> DNA

<213> Gly

[illegible]

atcgagacgc tgcacaatga atgttgaagc tctgagccaa tacaaacgac aatcactttn 120  
tactcggatg tctgattgag tcccgtatac tatcgagacg ctcgaaattg aatgttgaag 180  
ctctgagcca attcatacga caatatactt ttactcggat gtctgattga gtcccgtaac 240  
atatcgagac gctcgaaatt gaatgttgaa tctctgagcc aactcaaacy accataactt 300  
ttttctcgga tgtctgatng agtcccgtaa catatcgaga c 341

<210> 10550  
<211> 415  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10550

actaagctcg aaggttaacta gatgcctggt aacctggtaa cccaactggc catgaatcan 60  
aaatctgcac ctgtcgccag actctgtagt ttatgctcct ctaccgacca ccacacagaa 120  
ccttgccctt ttgtgcaaca atctgaagca attgaacagc cttaaagctta tgtctgcaaac 180  
atctacaata gacctcctca acctcagcag caaaatcagc cacaacagaa caattatgac 240  
ctctcccgca acaggtacaa tcccaggtgg aggaggaatc atcccagcct tagatggctg 300  
aatccttcac aacaacagca ataacaacaa cagccttatt ttcagaatgc tactggccca 360  
agcagaccat acgttccttc accaatccag caacaacaac aacagcaaca acctt 415

<210> 10551  
<211> 396  
<212> DNA  
<213> Glycine max  
<400> 10551

agcttgttct taatgagggg gattaggatt gactccatct tatgaaggat agattcccta 60  
ctaaaaggaa atccaagctt atccctagag gggatggacc ttttcagggt ttggagagga 120  
tcaataacaa tgcctatagg ttggtatctc cagaagagta tggagtcagc accactttta 180  
acatttctga ttttaattct tttgaatgtg gagctgatat tgaggaggag gaactaacag 240  
atttgaggtc atatcctctt caagggggag gggatgatga tatcctccct aggaagggat 300  
cagtcactag agccttgaga aagaggctcc aagaggattg ggctagagct gctgaagaag 360  
gccctatggt tctcatgaac ctcaatgtat atttat 396

<210> 10552  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10552

taacactgta tatngatttc tttagtgtgc atactatgtg ttcctttccc tcaactgaga 60  
 accccattgg ttggtccata caaacattct cctctaaatc tccattaaga aaggcgattt 120  
 tccatccat ctgatgtagc tctaagtcac aatgggccac taatgccatg attatcnga 180  
 aagaatnctt tcgtgagacc gatgaaaaca tctctntata atcaatgtca tctntttgag 240  
 taaatccctt agcaacaaat ctagcctttg tacattcaag gtgccatgag agtcacgggt 300  
 ggtcttgaag acccacttac aaccaactct tctacaatcc tttggtaatt ctacaanggt 360  
 ccaaacacca ttatgttcca tggaatttat ct 392

<210> 10553  
 <211> 264  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10553

tgaaattcat caaagcctct tggagctcac tgaacgaaga tgcgaaaga tttcttanga 60  
 agcttcatgt taatggagtg ttcctagag gtcgcaatgc atcaatcadc accttgatac 120  
 ctaagattga ggatccacaa aatctggggg atcttaggtc catttctactg gtaggatgta 180  
 tgtataaaat ccttgctaaa ttcttgcacg aataactaaa tgtgcttttg tagtgtgatt 240  
 gacaaaaagc aaatcgctt ctg 264

<210> 10554  
 <211> 448  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10554

tcagatggga caattagcta ctcaatngaa tcaacaacag tcccagaatt ctgacaagct 60

gccttctcaa gctgtccaaa acctcaaaaa tgtcagtgcc atttcattga ggtcgggaaa 120  
gcagtgctcaa ggacctcaac ccgtagcacc ttcctcatct gcaaatgaac ctgccaaact 180  
tcactctatt ccagaaaaag gtgatgacaa aaatctacct aacaatttct gtgcaggtga 240  
atcttcttcc acaggtaatt ctgatttgca gaagcagcac attccccctc ttcctatccc 300  
tccaagagca gtttccaaca aataaatgga agaggcagag aaagagatct tggaaacgtc 360  
tagaatagta gagggtaaca tacctctgtt ggatgcaata aagcaaattc caagatatgc 420  
caaattcttg aaggagctgt gcactaat 448

<210> 10555  
<211> 439  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10555

agcttctgga aagaactatt tggaatgtag atttacatc tatattaggt gcagaaagca 60  
aatatagagg tgcaagaagc aattgcctgc ataaaaacat tatgtgtagc ccactatacc 120  
actctattca gcctatctaa ggagagttat cccctgggga atactattca cccctacact 180  
aattgttgtt gacccccaac atcattggga aattaccctt ctacccccca acttcaaaat 240  
tccttatccc tcctcttccc ctcttcttc ccttctctag cactctttc ccttctctc 300  
tctccatctt tgtcccaaac cgacgctct tacccttctc tttctcttc tegtatcgat 360  
gcccttctct tnttctctc tccttcttcc tttctctcc ccaacccaac ctaaacgaac 420  
ccttttctct cttctcttc 439

<210> 10556  
<211> 502  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10556

gtcacctgcg gcattgcaagc ttccaagagt ngaagaggcg gttgacaaca gctccagtgt 60  
taattntgcc cgaccttaag agaccatttg aagtgtattg cgatgcaagc gggcaaggct 120  
tgtgggtgtg gttaatgcaa gagggaagag tagtggctta tgcttcacgc caattgcgtc 180

ctcatgaagt taactatccg acccatgatt tggaactagc agctgtggtc ttgccttga 240  
 agatttggag gcattattta tacggtactc gtnnttgaag ttttagtgat cacaagagtc 300  
 tcaaatactt gtccgataag aaggaaactca acatgaggca acgaagatgg atggagttca 360  
 tcaaggatta tgattgtggg ctttctctacc atccaggaaa ggctaagtgt gtgacgcagc 420  
 cgctaagccg gaagtcctta catgtngcga actatgatga gttggagcag agattgatag 480  
 aggaatttcg agatctgaat ct 502

<210> 10557  
 <211> 390  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10557

taatcaagat aagtatgata agggtttctc aaatattgaa tagcacatga ttnttctcaa 60  
 aatatgttta ccaaagagtt ttactctct ggtaatcgat taccatattg ttgtaatcga 120  
 ttaccagtag caaaatggat ttgaaaaagt tgtcaaattg aatttacaac gttccaatta 180  
 ttttcaaaaa gctgtaatcg attacacata tttggtaatc gattactagt gcctttgaac 240  
 attgaaatc aaattcaaat gtgaagagtc acatcttttc acataaaagc ttgtgtgaat 300  
 cgaatacact gatttcgtaa tcgattacca gtgactgttt ctgaataaat caaaagatgt 360  
 aactcttcaa aagggttttg aacttttcaa 390

<210> 10558  
 <211> 475  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10558

tatcgtctta tatggacgta tcatctaaaa cacagacgct catatacaga tcatattctg 60  
 ataatacata tatagatata acttttatca ttgtatttg ttgcatcta atacaataa 120  
 ttaggagtea ttatttctct ttaagacata aatgtatttt gagttaacat ttaccatttn 180  
 ttataagaga aaaattttaa aattatcatc cacaaattta agataataag ttattaacaa 240  
 taaattttaa aatattaaat atattattnt atgtcatttg aacaaaacac ttcaagaact 300



aaagcaaaat tataaatatg ataaaatgtg tctaaaataa actaacanaa accaaaatat 350  
 agaatttata agaactatta aaagtaataa ttataagac caaaatanaa acaataaata 420  
 cagggttaaaa tgttattaaa ctttatatat tgcattgcatt taataagaga aaaaa 475

<210> 10559  
 <211> 458  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10559

tcaagaaaat gatggcctca gcanattcct ttttctgga agcatatcca tagaanaacc 60  
 tagagataga tggctctgaag aggatagaaa acgagtacaa tacaacttaa aagacaaaaa 120  
 cataataaca tctgccctat gaatggatga atatttcagg gtttcaaatt gtaagagtgc 180  
 taaagaaatg tgggacactc ttcgattaac acatgaagga actacagatg ttaaagatct 240  
 atgataaatg cactaactca tgagtatgaa ttatntagaa tgaatgcaaa tgaaaatatt 300  
 cagagtatgc aaaagagatt tacacatata gtaaatcatc tagcagcctt aggcaaagaa 360  
 ttcaaaaatg aggatcttat aaacaagggtg ttaagatgtt taagtagaga atggcaccca 420  
 aagtaactgc tttctgaat caagagattg tctacatg 458

<210> 10560  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<400> 10560

agcttcgagc tcagcaggag ctacttggaa ttctctgtat ttgaccaatt cctgaaaccg 60  
 atcaacaatg aagagttcat tatcatcatc aatgaaacca atatctcttg tgtgtaacca 120  
 tacttctctg cctatagtac tctctgtagc ctctgcgtca tttagatata ctgaccaacc 180  
 agaaattgaa catatcaaga aactgtgatg gtgtttgttt gtaacatatt acctttgaca 240  
 agacttacgc taattaaaa tatgcttgcg gagtcttaca ttattctctg tataatcaat 300  
 tacacattct ataaccatt aataggcagg tgctcgctga tcagctactt cataaactgt 360  
 ctattttcat gctataatga tgtgactc 388

<210> 10561  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10561

tataagaatt ccaaattcta caaggagaag accaagaagt tccatgatag tttgatagct 60  
 aagaaggact tcgtgggttg acaaaaagtt ttattgtaca actctatgct cgaactcatg 120  
 agtggtaagt tgagggtcaa gtggattggt ccttttgttg taactaatgt ttttacttat 180  
 ggtacagntg agatcaaaag tgaatccaca gataagggct tcaagggtcaa tggacaccgg 240  
 ctaagactat tcttcacaaa tcttctctta tatgatgtan gtggggagga gacctcctta 300  
 cttcacctta cttctctgtc gccatgactt nacggagttt ctttntctgt ctccttcttt 360  
 actattattg cactcgtcca aatttattga ttgttttgaa tgggtctaat cttatga 417

<210> 10562  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<400> 10562

ctctatgtgt ccttaaatgga ggaatctaata cactattaga aaatactctt tcagcatcgg 60  
 ttatttagaa cattctacat cggttctaaa accgactttg aaagtgccga tgttgaatgt 120  
 atcaatgtta atatcggttt tgtaaaactg atgttaacat atatatgaca acatcggttc 180  
 tctgaatacc cgatgttaaa cacaatgaac aaaaaaaaaa aaagtgtacg catgatgaac 240  
 gttgacatcg gttttgcagt acaaccgatg ttaatatgtt atattaacat cggttgttta 300  
 gaaaaaccga tgtaaatgta atatatcaag atcgggtctc tacgataacc gatggtaata 360  
 tattecatta acatcagtta ttcttaaaaa ccgatgacaa cggttatgat gcatacact 419

<210> 10563  
 <211> 466  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10563

agcttaagct ccttcaactg cacaaggctc ttaatanntg aagagtatcc ttgtggaacc 60

ttctactcgac gaagacactg acaaaaactt atcttctcct tcttgacaa agtatggcag 120  
 gttgggggca agtaaatctt ctcccatca gaccttgat gcaactgtga tcgtatcccc 180  
 atatcagcta gatcttgacg ggtattcaag ccctcttcg tcttgccctg aatgttaagg 240  
 agcgtcctaa tcacactgtc acaaacattt ttctccacat gcataacatc aatacaatgt 300  
 ctaatgtcaa gatcacacca gtatggaaga tcaaagaaaa tggacctctt ctcccatatg 360  
 caactctgac tnttatcctt ctcttgggtc ttcttaaata cagtattcag gtgctgaacc 420  
 tgctgatata cctactcact agtcaacggt atcggtgaat atcatg 486

<210> 10564  
 <211> 417  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10564

tcaagaatta tggcctcctc aaactacttg ttctccgagg aaattctata aatagacctc 60  
 ccactctntaa tggagtggtg taccactatt ggaaaaattg gaaaaccgcg atgcaaatat 120  
 ttatagaggc aatagattta aatatctggg aagccataga acaaggacct tatgttcctt 180  
 ctatagtggc cggttgtgca acaatagaaa aacctagagc agattggatt gaggaagaaa 240  
 gaagattagt acaatataat ttaaaggcca taaatattat tacatctgcc cttaggaatag 300  
 atgaatactt tagggtttca aattgtaaaa gtgctaagga tatgtgggat accctacaag 360  
 taacacatga aggcacaaca natgttaaaa gatctaggat aaacacatta actcgtg 417

<210> 10565  
 <211> 307  
 <212> DNA  
 <213> Glycine max  
 <400> 10565

acagtgcaca cgattgggct agagataaat atgatcggtg aagtaccaat ggatttgtgt 60  
 ttttcataag gaacacaacg ttactctgga tgtcaaaaaa gtttccaata gtcactcttt 120  
 cgacttgtga agcagaaaaa ataacagctg cttcatgtgt ttccatgta gattggctca 180  
 cgaatatgtt aaaagagttg ggcatgtcac aagaagagac aaccaagatt tttgtggata 240

ataagtcaac cattgctcta gcaaagaatc cagtgttcca tgatcgaagc aaacatattg 300  
 atacatg 307

<210> 10566  
 <211> 295  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10566

aagaaagcac tttatgggtt aaaaaaagca cctatgggtt ggtatgaaag attaagtaaa 60  
 ttctattatg taataaaatt cactcgaggg aaggtagata tcaccttatt cataaagaag 120  
 aaggataatg atatcttctc ggtacaaatt tatgttgatg atataatctt tggatctact 180  
 aatgaatcta tgtgcaagga gttttctatt gacatgcaaa gttagtttga gatgtccatg 240  
 atgggtgaag ttaaatactt tcttggacta canatcanna caacaaatga tggga 295

<210> 10567  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<400> 10567

agctatatca ggaagttgat ggaattcttt gatgacatat cttttcatca cattctaaga 60  
 gaggaataac agatggctga gcgccttgcc actctagcgt ccatgttcaa agtaagcccg 120  
 cacggagatt tgtcgtacat caaattttaga tgccgtagtg agcctgcaca ttgcaatttg 180  
 atagaagaag aggaggatgg taagccttgg aacttcgata tcaaacgata catcgaagac 240  
 aaggaatacc cgcttgaggc ctctgacaac gacaaaagga cattacgaag gttggcggcc 300  
 ggtttctctc ttagtggaag tatcttgtac aagagaaacc atgacatggg gttgcttcgg 360  
 tgtgtcgtatg taagagaggc cgaacaaatg ctaatagagg tgcacgaagg ggtcctttgt 420  
 atgcatgcca atggacat 438

<210> 10568  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 10568  
 agcttgccac catggagttt tccgactatg ctcttggtgtg gtggaacaag ctacaaaagg 60  
 agagagcaag aaatgaagag ccaatggttg atacatgggt ggagatgaaa aggatcatga 120  
 caaagcggtg tgtgccggtt agttactcaa gggatttgaa attcaagcgc caaaaactaa 180  
 cccaaggcaa caagggggtt gaggagtatt tcaaggaaat ggtgtgctca tgattcaagc 240  
 aaagattgaa gaagatgagg aggtaactat ggctcgattt cttaatgggt tgactaatga 300  
 tatccgtgat attgttgagc tgcaggagtt tgttgaaatg gatgaattgc ttcacaaaagc 360  
 aatccaagta gagcaacaat 380

<210> 10569  
 <211> 334  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10569

gtaagccaat tcatacgaca ataactttnt actcggatgt ctgattgagt cccgtaatat 60  
 aacgaaacgc tcgaaattca atgtttaagc tttagccaa ttctaacgat aataacttat 120  
 tactcggatg tccgattgag tctcgtataa tatcgacacg ctcgaaattg aatgttgaag 180  
 ctctgagcct attcaaaca caataacgtt ttactcggat gtccgattca gtgacgtaat 240  
 atatcgggac gtcggaatt gaatgttgaa cctctgagcc aactcacacg acaataaacat 300  
 ttactcggg tgtctgnatg agtcccgaaa tata 334

<210> 10570  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10570

agcttaaaca ttcaatttcg agcttctcgt tatattacgg gacacaatca gacatccgag 60  
 taaaaagtta ttgtcgtttg aattggctcg taggttcaat attcaatttc aagcgtctcg 120  
 atatattacc ggactcaatc agacatctaa gtaaaaagtt attatcgttt gaattggctc 180  
 atagggtcaa cattcaactt cgagcgtctc gatattattac gggactcaat cagacatccg 240

agtaaaaagt tattgccgtt tgaattggct catagggttc aacattcaat tcgagcgtct 300  
 cgatatatta caggactcaa tcagacatcc gagtaaaaag ttattgtcgt ttgagttggc 360  
 tcagagggtc aacattcaan ttcgagcctc ccgatatatt acggcactga atcggacatc 420  
 cgag 424

<210> 10571  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10571

agcttcaacc aaggggagat ggaccatttt tagtgcttga aagaatcaat gacaatgctt 60  
 acaaagtga gctgcccgtt gagtataatg ttaattccac cttcaatgtc tctgatttat 120  
 ctctttttga tgcagatgga gaatccgatt ngaggacaaa tccttctcaa gagggagaga 180  
 atgatgagga catgttcaag agcaagggca aggatccact tgaaggactt ggaggaccta 240  
 tgacaagggc tagagcaagg aaagccaagg aagctcttca acaagtgtctg tccatactat 300  
 ttgaatacaa gcccaagttt caaggagaaa agtccaaggc tgtgagttgt atcatggccc 360  
 anatggagga ggactaaatg acacca 386

<210> 10572  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10572

tcccaagttt ttaagttctt cctcanaact gtcctaagca aagttcccaa agtcctatta 60  
 acaacttccg ttgtcccatc ggtttgtggg tacaagtggg tgaaaataac aatgtagtgc 120  
 ccaacttgc cccaaaagtc ctccaaaaat ggcttaggaa cttagagtcc ctatcactaa 180  
 caatgtcctc tggcaaacca tggagtctca caatctcctt gaaaaacaaa tcagccacat 240  
 gggaagcatc atcaattttt ttacatggaa taaaatgagc catttttagaa aacctatcaa 300  
 caaccacaaa aatggaatct ctaccattgc ttggttttgg cagcccaaaa acaaaatcca 360  
 tggataaatc aatccaagga tactccgaaa ttggcaatgg agtatacaat ccatg 415

<210> 10573  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<400> 10573

tgtagcatat tcaaacgacc ataactttta actcggatgt ctgattgagg cccgtaatat 60  
 atcgagacac tcgagattga caacacaagc tctgaggaaa tgcaaacgac tataactttt 120  
 tactcggatg tctgattgtg tcccgtagta tatcgtgacg ctcgaaattg aaaacataag 180  
 gtctgagcaa attcaaacga caataacttt ttactcagat gtccgattga gtcccgtaat 240  
 atatcgagat gcttcaaatt gaaaatagta gtcctagca aattcaaac ataataaatt 300  
 ttactcga tgctcgattg agtcccgtag tgtatcgaga cactcgaaat cgaaaacaga 360  
 agctctgagc aaattcaaac gacattaact tttttctcgg atgtacgatt gtgtcactta 420  
 gtatatctag acgctcgcaa ctgaaaa 447

<210> 10574  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10574

cgacctgtcg gcattgcaagc ttctattttc attataagcg tctctatata ttacgggact 60  
 caatcggaca ttcgagaaaa atgttattat cgttagaatn tgctcagagc ttccgttttc 120  
 aattacgagt gtctcgatat attatgggat ttattcggac atccgagtaa aaagttattg 180  
 tcgtttgatt ttggtcagag cttctgttct gaattttgag cgtgttgata tactatggat 240  
 cacaatcgga cattcgaata aaaagttatc atcgntctaa ttgtcttaga gcttttgtga 300  
 tgtgaacctg aggagaagca gatcgtttga tacatgctac ggaggttttg gtgatgccac 360  
 ttcaaagag ggaagaatag tcagggtaga cgccactttc aatg 404

<210> 10575  
 <211> 363  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 10575

agcttctata ctntgtacaa gaatgaagct ctgataccac ttgttagaca agtggcctca 60

gatatcttaa gaaggggggg ttgaattaag atattccaaa cttttctcct aattaaaat 120

ctatcttact ttntacttaa gttatgaatt cccttaatga caatcttctt aaatattaat 180

tcaaatgaag caacttgaat tatgaatata aagcaataat aaataaagga gattaaggga 240

agagaaaatg caaactcagt ttatactagg ttccggccaca cccttggtgc tacgtccagt 300

ccccaagcaa cccgcttgag agttccacta acttgtaaat tccttttaca agttctaaac 360

aca 363

<210> 10576

<211> 361

<212> DNA

<213> Glycine max

<400> 10576

tgtaatcgat tacatcattt gtgtaatcga ttactagtca caaaaatttt tatctcaagt 60

ttgaagagtc acaactcttc agaaactaac tgtgtaatcg attaccacat ctatgtaatc 120

gattactatt aagaaaatttt ctaagataac tctcaagagt cacaactggt caagaagttg 180

ttgaatgacc attatagacc tattactagg tgacttggga tacgaaagtc cttagagttt 240

ttctgaataa cattgactta tcctctcaaa accaaaattgt cttatcactc tcacaatatt 300

ccttgaccca aacacgtacg aattcgataa cgaatctcga tcgatcttca ttgtatgtc 360

a 361

<210> 10577

<211> 341

<212> DNA

<213> Glycine max

<400> 10577

taataaatct atatatggtg tatagcaagc ttcccgttag tggtagctta agtgtcatgg 60

gataatttct tcatttggtc ctgatgataa ccccatggat caatgcatac accacaaggt 120

cagtgaggag aaatatgtt ttcttgtttt atatgtagat gatattttac ttgcagccaa 180

cgatcggagt ttgtacatg aggtgaaaca atatttctct aagaattttg acatgaagga 240



tatgggtgat gcatcttatg tcatcggcat taagattcat agagatagat ctcgaggat 300  
 tttgggtcta tcataggaaa catatattaa caaaattcta g 341

<210> 10578  
 <211> 322  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10578

tctgataagg taaagatgat taggtaaaag ttgaaggat cacaagatag acataaaagt 60  
 tactatgata aaaggagaaa actcgaattt caagaagaag atgtgttttt gaaagttaca 120  
 ttgataactg ggttgcgga acccttaagt tccgaaaact ctctcctaaa ttcattggtc 180  
 cctaccaaat tcttaaaaga gttgattcca ttgcatatca aattgtnta cctccaaatc 240  
 ttcacaatgt gttccacggt tctcaacttt tgaaatatgt ntttgattct tcccggtcga 300  
 ttgaacctga tgtagtacia tt 322

<210> 10579  
 <211> 142  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10579

tctcgatata ttatgcgcct gaatctganc cccaattgaa aagttatgac catttgaatt 60  
 gctcgtgagc ttccgttggt caatttcgag cgtctcgata tattatgcgc atgaatcgga 120  
 cctncaagtg aaagttatga cc 142

<210> 10580  
 <211> 361  
 <212> DNA  
 <213> Glycine max

<400> 10580

tgaatccgag gccacctcat ggacttctct aacaacaata acatcattta ctgcactgaa 60  
 ttgttgggag ttggaagcca ttttcataat caaattccta gtttcagcaa cggttatatc 120  
 accaagagct ccaccactgg tagcatcaat catactccta tccatgttgc taagtacctc 180

atagaaatat cgaaaaacga gttgctcaga aatctggtgc gggggatagc ttgcacacaa 240  
 tttcttgaat ctttcccagt actcatacaa gctttctcca ctaagttgcc tgaatgctga 300  
 aatgtcattt ctgatggcag tggctctaga tgcacggaag aatatctcca agaacacctt 360  
 c 361

<210> 10581  
 <211> 449  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10581

cytgacacta tattgtactc attctagtca canaaggaaa caagttaaaa attattttca 60  
 aagtaaaaaa gttgtttcta cttcaaaact ctttgaacta cttcacatag acttatttgg 120  
 tccttccaga actatgagtt tgggtggtaa ttactatggc ttagtaatta tagatgatta 180  
 ttcaagactt tgettttgaa aaccaaaaat gaagcttttg atgcttttcg caaacttgcc 240  
 aaggttatct aaaaatgaaa aggtcttaac attgtttcaa ttagaagtga tcatggagat 300  
 gaatttcaaa atgagtcttt tgaaaagttt tatgaagaaa atggaattca acacaatttt 360  
 ttttcccaa gaacacctca acaaaatggg gttgtggaga ggaaaaatag atcccttgaa 420  
 gaaggagtta gaactcttct aatgaaac 449

<210> 10582  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10582

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 tttgcttcca aagtctcatg gccttgcagg tgaagaccg cacaaacatt tgaagaatt 120  
 tcacattgtc tgetccacca tgaaagcccc agatgtccaa gaggatcaca tatttctgaa 180  
 ggctnttctt cattcattat agggagtggc aaaggactgg ctgtattacc ttgctccaag 240  
 gtccatcacg agctgggatg accttaagag agtattctta gaanaaattt tcctgcttc 300  
 caggaccaca accatcagga aggatattct aggtattaga caactcagt gagagagcct 360

gtatgagtac tgggagagat t

381

<210> 10583  
<211> 422  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10583

ttcaaaagtt ttaagcattg gatgattctt ataaagaatt agacggtnaa gtgtcttaag 60  
titaactata gcttggaatt ctgttctact gaattcaatg aattctatgg agatgaaggc 120  
atagcgagac aacataatgt atgctatact ccacaacaaa atggagaata tgaaggaatg 180  
aataagacct tgttggaag gatgagatgc atgctatcta attcatgatt gaatataagt 240  
ttctaagttg aggcaatcaa cacaacatgc tatctcgtga attggcaacc aacactacca 300  
caaacttcaa caccctatt gaggtatggt ttagaaaatt ggttgaatac tcaatgttga 360  
gggaactgat tggacgagtc aaaaccattc gaagtagcct aaaaccacaa caccagaaa 420  
gt 422

<210> 10584  
<211> 401  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10584

agcttctata ctttatacaa gaataaagct ctggtaccgc ttgttaaaca agtggcctca 60  
attatcttaa gaaagggggt tgaattaaaa tacaaaaact atccccctaa ttaaaaattt 120  
aactttttta tattaaaaat gcaaccctta ttatgagtta ctctaagaac aattcanaac 180  
aaacttcttt aaagcgaaat ataaacaata ataaataaaa gaagtttaag ggaagagaga 240  
atacaaaactc aatttttata ctggttcagt cagccctat gctacgtcc agtccccaag 300  
caacatgctt gagatttcca ctatcttgta taaagccttt tacaaagttt gaaccacaca 360  
gtagcaaccc ttcccttggt ttcaataaac cttacaactt a 401

<210> 10585  
<211> 384  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10585

tcttcaactc accaatgtca tctggtaatc tggacagact tacacaatct gagatgtcaa 60  
gacagcttag cttgttaagc cctttaacag aatctggcat ctctaccaa tcagagcaag 120  
aacatagcct tagcacttcc aaattctcca gcttcgcaat atcttgtggc aatgcagata 180  
gectgtgaca gttagtata ctaagcttct tcaatggggt gatgttactc agcccatcgg 240  
gcaatttaac cagatcatta caatagtcaa tgctcatctc cacaagattt ggcattgcat 300  
ctgagatttg gatagaacag ntttcaaaag cctgcctcgt attacacata tgaagggaca 360  
attttcgcag attcttcaat atgc 384

<210> 10586

<211> 455

<212> DNA

<213> Glycine max

<400> 10586

tcgtaccggg gttcctctca gtcacctgcg gcatgcaagc ttgatacctt gcacacaagc 60  
aaacactaag cataatatct gggtgacttg cagttaagta aagaagtga ccaatcatc 120  
ctctatactt tgactcatcc attgatttac cgttttcac taagtcaaga taagtcgatg 180  
ttgtcattgg tgttgatgct tctttgcact ttttcatggt gaatttctta attagttatg 240  
tacaatattt tgtttgacat aggaagggtc catgtttcat ttgcttgact tgaagtccaa 300  
ggaagaagtt caattctccc atcatagaca tctcaaattc tttctgcatt agtactggaa 360  
aattccatc acgaagtttc attagtagca ccaaagatta tatcatcaac atacatttgc 420  
acaatgaaca actcatttgt taatctcttg ataac 455

<210> 10587

<211> 379

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10587

tgtgcattca atatcctgat aagggtgttc catatgttct caagactgga ctaatacatt 60

ngctgccc aa gtttcatggt cttgcaggtg aagatcctca taagcatctt aaggagttcc 120  
 atattgtttg ttccaccatg aagccgccgg atgtccaaga atatcatatc tttctaaagg 180  
 ctcttctctca ttctctggag ggagtggtgaa aagattggct atactacctt gcccccaagt 240  
 ctattttcag ttgggatgac cttaagaggg tggttcttga gaaattatc cctgcactca 300  
 tgaccactgc catcagagaa gacatttagg catcangcaa cttactggag aaaccatgta 360  
 tgagtactgt gaaagattc 379

<210> 10588  
 <211> 326  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10588

gcttgtgacc atttgaataa ctcaagagct tccattgttc aattntgagc gtcttgatat 60  
 attatgcgcc ttaatcggac ctgctgagtg aaagtattga ccatttgaat aactcaagag 120  
 cttccattgt tcaatttcga gcgtctcgat atattatgtg cctgaatctg acctccgtgt 180  
 gaaaagttat gaccatttga atttctcgag agcttccgtt gttcaatttc gagcgtctcg 240  
 atatcttatg cgctgaatc ggacctctga gtgaaaagtt atgaccattt gaattactca 300  
 agagcttcca ttgatcaatt acgagc 326

<210> 10589  
 <211> 355  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10589

atgaatggag ggagagggag aggtagagaa naagcactaa atttatgcct canataaggt 60  
 ctgaactntg aagtgttaatt ctcaaatgat caaagttgaa aaaatatata cacatgacct 120  
 ttatttatag cctaagtgtc acaaaaaatt aaagggaatt ttgaacactt gaatttgaaa 180  
 ttgaatttgt ggagccaaaa ttccacaaat tggtgtgtat cctacattta aagatgcctg 240  
 ttttgcattg ggctttcttc aagatgataa ggaatatgtt gaagcaattt aagaagcaaa 300  
 aaattggggt acaggtcatt actttataaa actttttgct acaatgctaa tcaca 355

<210> 10590  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<400> 10590

tgatgatcga tacaacagtc aacagctgat aaagagaaag cataatagca ctgcaacgat 60  
 tcaacatgca ttgaaaagac acaagtttat ttccaccga cgctggtagt cttcgaacac 120  
 attgacattt tgttgacagt aacataccat gacgagattg caaagcaagg ccataatat 180  
 aataacttgc atgggttggg aggggtatcac actctaatta agggcacttg cgtctgccac 240  
 cgtgggtggt gagactggca taacaggga acacttcttg gttaccggaa gttcccggtg 300  
 gcacgcagtt gcagcgtctg cagcaagttc cacatgctct gtgacacatg cgttgacgag 360  
 atgctaaacg gcacctcgca gcacatgcag cattacaatc tgaaatcaat tcatcattca 420  
 agtttagtaat tagttc 436

<210> 10591  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<400> 10591

ctttaaccgg cttctaaatg atatgttcgg aatgcagttt aagaagcaat tatcaattta 60  
 ataattgtct ttaaacatgc aagacaaaat ttattgcaat aataaatgag ataaggaaag 120  
 agagaaatgc caacttgatt tatactggtt cgaccacttc ccgtgcctac gtccagtctt 180  
 taagcaaccc acttgagatt ttccactctc ttgttaaaaa tcctattaca aagtctgaac 240  
 cacacagggg caatccttcc cttgtgttca gcaattctta caacttaaga gaccttcggt 300  
 cctttaatca atctctttga aaagatgaag aagacaaact ctctctttat gagaaagata 360  
 ttac 364

<210> 10592  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10592

atgtgaagct cctgtntag cnttaccga ttatactcat ccatttgaag ttgaatgtga 60  
 tgctagtga gttggcattg gggctgtttt gatacaaaac aaaaggccta tagcttattt 120  
 ctccggagaaa ttgggaggag ccagattgaa ctattgcacc tatgacaaag agttctatgc 180  
 cattgtgaga gctcttgatc attggaatca ttatttgcgt tctaactact ttatattgca 240  
 ttcagatcat gagtcattga agtatatcaa tgggcagcag aagttgagtc caaggcatgc 300  
 taaatgggtt gaatttcttc aatcttttaa tttctcttca aaatacaagg atggaagag 360  
 taatgtggtg gctgatgcac tttcaaggag gtatgctnta atttcaattc ttgaaactcg 420  
 tttacttg 428

<210> 10593  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10593

ttngaatacag tggaaagagg tatggacttg tcgtgggtcat ccactctaaa tggatatgtg 60  
 tcatgttctt agctcacaag gatgagtctt agtgcctcct ttaaattttg taaaagattt 120  
 caaaatgata aaggagtatg cattacttca atcagaagag atcaaggggg agaatttgag 180  
 aatgaaaatt ttcaactggt ctatgatgaa aatgttattc ttaataattt ttcaactcct 240  
 agaacatcaa tagaatgaaa tagttgaaag aaaaaacata tctttgcaag agatggccaa 300  
 catcatgctc aatgataatt taaccoccaa gcacttctag gctaaagcaa tgaataccac 360  
 aacanaattt atataagggt aatacttaaa aagactccat atgaattatg gaatgga 417

<210> 10594  
 <211> 338  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10594

ntgggctaata tcaaacgaca attatccttt gctcgggtatg tctgattgag tcccgtaata 60  
 tattgagacg ctcgaaattg aattctgaac cttagagcta atgcaaacga caataacttt 120  
 ttactcggat gtctgattga gtcccgtaat ctattgagac gctcgaaatt gaattctgaa 180

ccttagagct aattcaaacg acaataactt tttactcgga tgtctgattg aatcccgtga 240  
 tacatcgaga cgctccaaat tgaatgttga agctcttagc atattcaaac gacaataact 300  
 ttttactcgg atgtctgatt ggagtcggaa tacatcga 338

<210> 10595  
 <211> 371  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10595

agctgcatga ttacatctcc ctctttctca agaaaattct tttaatatca tcaaaatctt 60  
 catgatttac aaccctggat ggaggaaatca ccctaattct agatgggtcca gccctcagca 120  
 acaacaacag cagcccgctc ctctctttca aaatgctgct ggcccaagca gaccatacat 180  
 ttctncacca gtccaacaac aacaacaacc ccagaaacag ccaacagttg aggccctctc 240  
 acaaccttcc ctgaagaac ttgtgaagca aatgactatt ccaaacatgg cagttcaaca 300  
 agagaccaaa gctttcatte agagcttgac ttatcaaag ggacaattag ctacacaatt 360  
 gaatcaacaa c 371

<210> 10596  
 <211> 433  
 <212> DNA  
 <213> Glycine max  
 <400> 10596

ctattcccaa tggcaaatca cataacaaat ttttaagata ctacagctca ctagtagcag 60  
 tatctaaagc aataatttct gtttccatgg tagaacgtgg aataatagtt tgttttagtag 120  
 atttccatga tactgcacca ccagctaaag taaaaacata accacttgtc gattttgttt 180  
 catcagaata aaaaatccaa tttgcatcat taaaccctc aattactgta ggaaaacatg 240  
 tataatgaat gccataatta atgggttctt ttaaaatact ctttctaag caatccaatg 300  
 agaatgatta ggaatattat tataccttcc taatctacca actgcatata caatgccagg 360  
 cctagagaag tttgtcaaat gcaaaaaaga accaataatt tgagaatatt tatatgaaga 420  
 agttccttta ctc 433



<210> 10597  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10597

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 ttatttttag actttgttgt ttttttttta ttattagaag taatctatgt gtcataatag 120  
 atggtttaga actaagtttc agttgtttat ataaataatg attgtttatg agtaaaaaat 180  
 attttcttat tattcaaaga gataatttaa gagttattta aaattatatc attaaaaata 240  
 aatatatgag ttgtttaatt ataatgtgat attgtagtaa ccaattaata tacgataaaa 300  
 aaactcagaa taaattactt aaattatacc caatggaaat gctattgggtg gtattgcaat 360  
 gatcttttta atcaaaatag agtaattata caaattattt at 402

<210> 10598  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<400> 10598

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 aaattagata acgatatcaa tccatcagct aataattcta aagaggatat atattttttc 120  
 ttgtgatgac tttgaagttc taactatatg tacacttact tgattttctg ccaaccccat 180  
 ttgaataact cctgagggat tggctaattc agcatagggg ttctcatcat aggctttcca 240  
 cccacaaaaa taacgggaat ctccccgtg agtttcataa actgcaactt ttgaaagctc 300  
 cacacagggg tgctccatct caatacccat agctagctag ctctctggca aaagagttga 360  
 ttactcaatt acagaaagca gacagctgct gtgagtaaca caaagata 408

<210> 10599  
 <211> 339  
 <212> DNA  
 <213> Glycine max

<400> 10599

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tgagatgatg catgtttatg tgtgctgtcc tacgatgcca caaccaagaa tcatttatct 120  
tacttaccaa acaactcagc tcatgaaatg atgcatgctc aatgtttaac atatatgat 180  
tacctattct cttgccaaata tggacaacct cactagacgt agattcacca ataagataac 240  
aattcttatt gaattcaatt ttgaagcctt tgtcacatag ttgactaatg ctcaggaggt 300  
tatgttgtag tccatccaca tatagaacat tctatatct 339

<210> 10600  
<211> 339  
<212> DNA  
<213> Glycine max

<400> 10600  
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aaatcctata ctactagaat ggccaaaaca caaggcccaa aagaaggaaa aacctattct 120  
gatatttaca aaaaagagtg gatccaacct tgacccatgg gctcaaaaat ctaccttaag 180  
gttcatgaga accctagggc attcttttagt agctctagcc caatcctctt ggagtcctct 240  
atccaatacc cttggggggg aggattgcat cacaatcctc atctcctcct ttctcggatt 300  
gagttattaa ttgctcaaaa tcaacatccg ggtcctcag 339

<210> 10601  
<211> 338  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10601

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ttaaactagt tntctaggtt tctaaccata atatatgtat ttttcaaaac ttccatttca 120  
aagaaaataa tatntattat tntaagttca aaactcagag agggaaaaat gcatgcaaac 180  
aaattcaaat aataagtatt ggctaaaata gttttattat gaaattaaat tctntaagga 240  
taaataattt catttttcgg aatatttgat attttgaatt ttatttgatc cttannagta 300  
acattgtaac aataaaaataa tatctttcaa agtttatg 338

<210> 10602

<211> 326  
 <212> DNA  
 <213> Glycine max

<400> 10602

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agctttccag caactcctct ttgcacaagc cactcatgcg cgacaagact gtgctggtaa 60
cgggaggagc cggttacatc ggcacccaca ccgttcttca gctcttgctc ggaggttgca 120
gaaccgtcgt cgtcgacaat ctgcacaatt cctccgaggt ttctatccac cgagtcaggg 180
agcttgccgg cgaatttggg aacaacctct cctttcaciaa ggtgctcttc ctcttctat 240
tgctgtttc attcaatttt gatttggtcg gtgccttttt ctcgtaaaca aagattattt 300
cgcttcgtgg cttgtgtttt tcggga 326
  
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<210> 10603  
 <211> 320  
 <212> DNA  
 <213> Glycine max

<400> 10603

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agcttaataa atctatatat gctttaaacc aaacctcctg ccagtggtac cttaattttc 60
atgggataat ttcttcattt gggtttgatg aaaaccccat ggatcattgc atataccata 120
aggtaaatag gagtaaaata tgttttcttg ttttatatgt agatgatatt ttacttgctg 180
ccaatgatca aggtttgcta tataagggtga aacaatttct ctctaaattt ttgacatga 240
aggatatgga tgatgcattt tatgtcattg gcattaagat tcgtaaagtg atagacctta 300
aggtatttta tgtctatcac 320
  
```

<210> 10604  
 <211> 300  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10604

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tatgcagggt gaaagccttt gaggaagag gtatgcctat gtgggtgtgg atgatttctc 60
cagatntacc tngtcaact ntatcagaga gaaatcagac acctttgcaa ctgtcaagca 120
cttnacatc tntggaagtc catgttacan tttggcagat agagagcaaa ggagaaagat 180
ggatcccaag agtgatgcag gaatattcct gngatactct acaaacagca gagcatatag 240
  
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agtattcaat tccagaacca gaacagtgat ggaatccatc aatgtggttg ttgatgatct 300

<210> 10605  
<211> 340  
<212> DNA  
<213> Glycine max

<400> 10605

agctttgaga aaaatcaaac gacaataatt tttaactcgg atgtccgatt gagacccgta 60  
aratatcgag acgctcctaa ttgaaaactg aagctctgag caaatTTaaa ggacaataaa 120  
ttttcactct gatgtccgat tgtgtcccggt aggatatcga gacgctcgta attgaaaacg 180  
gatgctctga gaaaaatcaa acgacaataa cttttaactc ggatgtccaa ttgagccgtg 240  
taatatatcg agacgcctga aattgaaaac ggaagctcta tgaaaagtca aacgacaata 300  
acttttaatt cggatgtctg attgagtccc gtaatatatc 340

<210> 10606  
<211> 243  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10606

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accgaatgac attaaagaag ccaagatcta agacgttaaa atctagcgag tttagggggt 120  
gagaaaccaa tcgaatgtca aaatcgctt cactagcagc ttgatggaag tcgttgtcat 180  
cttcatcaat gtgacatgga acattgtctt gttgtatgaa aatattttct cctctatctc 240  
cta 243

<210> 10607  
<211> 338  
<212> DNA  
<213> Glycine max

<400> 10607

agcttttagtt cactgctttt atagtgcacg atatgcttcc agaggaaaac acattgtcta 60  
aaagttacta tcaggcaaag aagatactat gtccgatggg tatggagtat cagaagattc 120

atgcttgccc gaatgattgc atattgtatt agacatgaat ttgaacaaat gtccaaatgc 180  
 cctaggcgctg gggatcacg atacaaagtc aaggatgatg aggagtgtag tattgatgaa 240  
 aactcaaaga agggccccc agtgaagggtg ttgtgggtatc taccgatcgt tccaaggttt 300  
 aagcgtcctt ttgctaattg agacgacgct aaagacct 338

<210> 10608  
 <211> 332  
 <212> DNA  
 <213> Glycine max

<400> 10608  
 agcatccaca aactgctggt ggcaattgac tcacaaatca tagcacggcc gagaatttgg 60  
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 tgggctagag catctatctg taactgccca ccaactccagg cagtcaccaa aatacaatct 180  
 gtgctgacta aattgtaaag aaaactaaca gcacgacctt cacattctgc actacgacca 240  
 actgaatctt catcccatc ctgacctact cttcgcagag gtccctacaa aatcaaaaaga 300  
 cataaagtag agtcataata tgtaacctg cc 332

<210> 10609  
 <211> 330  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10609

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 aaatctgaag atgaaggagg aagaatgtat tcatgacttc cacatgaaca ttcttgaaat 180  
 tgccaatgct tgcactgcct tgggagagaa gatgacagat gannagctgg tgagaaagat 240  
 cctcagatcc ttgcctaaga gattngacat gaaagtact acaatagagg aggcccaaga 300  
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<210> 10610  
 <211> 318  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 10610

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ttttatatga tataaattga ttataaatte taattntgtg tacttgcctc ctccatataca 120  
tgtttggtc cgcgtcctta gaagctcata aaagccatta tgatcttctc ttggttcac 180  
atttactatt tcatcttcat ttagtggttg tgatgcacct acattagggt catgttgcc 240  
atattgttca natgcgtcat tgatcatcat ttccattggg ttntgagggt gaacaccact 300  
atcttganaa catcttca 318

<210> 10611  
<211> 307  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10611

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gaaactcagc tccaaactcg aaagtggagg acacacgaac aaccctaagc aagaacattc 180  
atgtggctcc gaaaaaggac gagaatggag gattgccttg agggctctct cttaggcaat 240  
catgaaacac agctccaaac tcanaagtgg aggacacacg aacagcccta agcaagaaca 300  
ttcatgt 307

<210> 10612  
<211> 305  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10612

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annagaaagt tntattggcc ccatatgaag aaagatgtcc ataagcattg cactaagtgt 120  
gtggattggt tacaagccaa gtctagggtg atgcctcatg ggctatacac acccttacc 180  
atccctttct cacttngnt agacattagt atggactatg tccttngct tcctagaacc 240

canagagggtg tagactctat ctttgtggtg gtggataggt ttagcaagat ggcacactnt 300  
 atatc 305

<210> 10613  
 <211> 332  
 <212> DNA  
 <213> Glycine max

<400> 10613

agcttgcttc tacagggtga cctattggag gctcccaact tacttccaat gaaaggcctt 60  
 cttgttataa aatttgaaag caatgaaggt aagtaaattg tcaattacaa aattataaaa 120  
 aggtcctcaa ttttgggtgt tgttctttct ttggtgatcc actcaatttg gaggcttctt 180  
 tagcccaata gctcttaagg tgggtgaccc cttgcttctt gactcaaatt cttcaaggga 240  
 tgacatcaat cctcctttcc aattccctat atggcaactc acaacaagg aaacaaagg 300  
 acaagaaata accaaagaca aaaaaaaaaa tg 332

<210> 10614  
 <211> 278  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10614

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 attacgggac tcaatcagac atcggagtaa aaagttattg tcgtttgaat tagctcagag 120  
 attcagaatt caatttcgag cgtcccgatg tattacggga ctcaatcaga catctgagcg 180  
 aaaaagttat tgcngtttga atttgctgag agcttcaaca ttcaattctg agcgtctcga 240  
 tgtattacgg gactcaatca gacatccaag ataaaagt 278

<210> 10615  
 <211> 340  
 <212> DNA  
 <213> Glycine max

<400> 10615

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 atacatcgag acgctcgaaa ttgaatgttg aagctctcag caaattcaaa cgacaataac 120

tttttactcg gatgtctgat tgagtcccg aaatatcga gacgctcgaa attgaatggt 180  
gaagctctca gcaaattcaa acaacaataa cttttaactc ggatggctga ataagtcccg 240  
caatacatcg agacgctcaa aattgaatgt tgaagctctc agaaaaattca aacgacaata 300  
acttttttcc ttagatgtct gattgagacc cgtaatatat 340

<210> 10616  
<211> 434  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10616

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gaggaagaga gggcacactc ccaacaaagg caaagactcc tttagccatt cccgggttgt 120  
gctctctctc ttctgtcaac atgagatata tcacatcact catcacagtc cattcccaac 180  
caccaataga acccttcaag acatgcattt ctactcgtga tcaagatcac cctgtccatt 240  
atgaacaata acaccatcat gcatgcattt ggataagacc atacatatat aataattata 300  
tggcangtgg acctttcgtg tatcaaaaca agcatatttc taattcttta naattgcttt 360  
ttccctactc tattcttggg ctacatatgt atatttatat tacccaataa ttaaatacat 420  
aactacagtt tatt 434

<210> 10617  
<211> 336  
<212> DNA  
<213> Glycine max

<400> 10617

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aggacgctga tgcagatgct gagggtagca agatggaaga agttgattaa atctgactta 120  
attgctgttt acgttttttag aaacaatgat tggagaaaca gtcttttttac tatgttttat 180  
gttttttgaa ttttcgaaat tttggaacgt tggctagtta ggtgccgtat gtagtagttt 240  
ctttatggta aatttgtgtc cgctccctgg ccaatgaatt tgtgctttct tcgtataate 300  
gtgtatgctg attgcggaag tttcagttcg ggaatg 336